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| - | <a href="#">ZWCAD-964</a>  |
| - | <a href="#">ZWCAD-9837</a> |

## Problem Summary

publish: In the add drawing dialog, the option "Add file name as prefix to drawing title" is missing

lisp\table: The height and width of the table generated by the attached program are incorrect

lisp\dcl: After loading the attached dcl file, the value of the variable cannot be correctly viewed

plot\image: DWG TO PDF.pc5 prints drawings containing images, and the generated PDF is much larger than acad

viewport: To apply page settings to the layout space, you must turn off the viewport display lock and then activate the viewport before regen can be applied.

dimordinate: When marking coordinates in attached drawings, redundant negative signs are displayed in the marked values during preview

zoom\image: When zooming the view in the attached drawing, the polyline did not remain in the center of the line in the image

ortho\osnap\offset: Open the ortho mode in the attached drawing, execute the offset command to specify the first point and the preview line cannot be displayed correctly

TABLEEXPORT: French characters lost after attachment table export

Attribute: Some attribute text in the block reference in the attachment is not displayed

lisp\grvecs: grvecs draws line segments with color 256 and flickers severely

select: select entities in attached drawings, very inefficient

COPYCLIP\dimangular: Copy and paste the angle dimension of the attached drawing, the position of the dimension text changes

Text: The text display direction of the attached drawing is incorrect

xref: Do not display nested xrefs when the xref name is all multilingual characters

plot\_options: The selection window is not grayed out when printing zwcad

open: When opening the attached drawing "A1606-160X650-YCAC-Factory Drawing.dwg", the graphic objects are scattered and displayed incorrectly.

plot: Incorrect print preview and results using dwg to pdf and pdfcreator

Lisp\dcl: When the dialog label is garbled, the dialog box cannot be popped up

Plot: The attached drawing is not printed correctly using dwg to pdf.pc5

viewport\pan: After copying and pasting a viewport in an attached drawing, activating the copied viewport for panning does not work correctly

trim\block: Multiple objects in a block cannot be selected as trim boundaries

ZRX\try-catch: The exception of the attached program cannot be displayed using ReportError after being caught

Adcenter: After selecting a dynamic block for redefinition, the redefined block is not a dynamic block

dynblock: Change the grip parameters of the dynamic block, the attribute position changes

dimedit: Double-click the text in the attached drawing and press esc, then click yes in the pop-up dialog box, and some text will not be displayed

3DSolid: The display effect of the attachment drawing is incorrect after setting the "Non-Wireframe" visual style

trim\hatch: Move the hatch border, the hatch pattern is not moved associatively

|                                                                                                                                                                                      |
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| Plot\PDF: The PDF file printed by ZWCAD is larger than that printed by ACAD                                                                                                          |
| Text: The text in the attached drawing is blurred                                                                                                                                    |
| plot\pdf: Thai text is displayed incorrectly in the DXF file printed by plot                                                                                                         |
| Audit: The Chinese version should not display English prompt information, and the repair content is not as detailed as acad2013                                                      |
| refedit: When editing external references in attachments, objects in the working set are not highlighted                                                                             |
| Mechanical\hatch: The hatching effect of the section graphics created by the part library in the mechanical version is incorrect                                                     |
| block: The specified dynamic block in the attached drawing "AA31-001.dwg" is not displayed completely                                                                                |
| OLEOPEN: Clicking "Repeat OLEOPEN(R)" has no effect                                                                                                                                  |
| LISP: Execute the attached layer control lisp program, the operation efficiency is low                                                                                               |
| shademode: When the fill pattern is SOLID, the fill color is displayed incorrectly after body shading                                                                                |
| Zoom: When you scroll the middle mouse button to zoom in or out, the length of the cross cursor changes.                                                                             |
| dimjogged: When using autovue to open drawings saved by zwcad with bending annotations, the bending annotations disappear and are not displayed                                      |
| Hatch: When selecting an internal area in the attached drawing for filling, the area with a finite boundary prompts that the boundary cannot be found                                |
| pdfimport: The attached pdf file cannot be imported into cad                                                                                                                         |
| lisp\vba: Using -vbarun in lisp to call a vba program will end the loop                                                                                                              |
| dimension\dimdiameter: When editing the diameter dimension in the attached drawing, the display position of the dimension content is incorrect                                       |
| DynamicInput\Dual Screen: When ZWCAD is on the main screen, double-click multiple drawings on the secondary screen, and the secondary screen will display the coordinate prompt tool |
| xref/linetype: Attachment drawing, external reference line type is not displayed correctly                                                                                           |
| hatch\properties: When creating a hatch in the attached drawing and selecting the hatch with the properties bar open, there will be a delay of a few seconds                         |
| solid\draworder: When the cursor moves over a solid object, selecting the preview will overwrite the object on the upper layer                                                       |
| open_hatch: Open the attached drawing, the hatch pattern is not displayed correctly                                                                                                  |
| appload\lisp: Load the application in the attachment, and the execution command results are incorrect                                                                                |
| appload\lisp: Load the application in the attachment, and the command prompt type is incorrect when executing                                                                        |
| ZRX\HLR: Incorrect calculation results for hidden layer removal of some 3D entities                                                                                                  |

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| xref\bind\saveas: After the attachment is bound and saved, the line type changes                                                                                                                    |
| regen\linetype: Some dotted line types in the attached drawing block reference need to be regenerated before they can be displayed correctly                                                        |
| HATCH: The hatch pattern created and saved by ZWCAD in the attachment is displayed abnormally when opened in acad                                                                                   |
| plot\pdf: The color of the PDF dimension lines printed out when printing attached drawings with the attached print driver is too light                                                              |
| COPYCLIP\Temp: Temporary file generated by executing the COPYCLIP command, which is not deleted when exiting the program                                                                            |
| pdfattach: After attaching the attached PDF as a base map, the program efficiency is slow and stuck                                                                                                 |
| xref\linetype\plot: The line type ratio of some dot-dash line segments in the external reference is inconsistent with the ACAD print result                                                         |
| ZRX\acplPublishExecute: Unable to publish dwf file                                                                                                                                                  |
| field\xref: When inserted as an external reference in the attached drawing, the field display interval is incorrect and some of the fields are displaced                                            |
| Plot: Printing images has much larger capacity than ACAD                                                                                                                                            |
| block_refedit: In the attached drawing, when using in-place editing of annotation blocks, the changes will not take effect after saving and exiting the editing after changing the annotation size. |
| dim: When the mouse hovers over the annotation grip, a text position menu will pop up automatically                                                                                                 |
| zwplot: The attachment scattered line recognition cannot recognize the frame composed of polyline segments                                                                                          |
| mirror: When polar tracking is turned on and multiple entities are mirrored, the system may freeze or hang.                                                                                         |
| uninstall: When multiple language versions are installed, the uninstall registry cannot be cleaned up                                                                                               |
| OLE: After inserting an OLE object and opening and modifying it with WPS, the object is not displayed correctly after saving                                                                        |
| ZRX\CZdUiPaletteSet: The panel cannot be automatically hidden when it is set to dock on the left                                                                                                    |
| open: Open the attached drawing, basic editing is not possible in ZW                                                                                                                                |
| REGION: The region drawn by ZWCAD is not displayed when opened in ACAD                                                                                                                              |
| xref: Attached drawing A21-2NN 코아평면도(201동).dwg, the fill pattern in the external reference is not displayed, and some text is blurred                                                               |
| solprof: solprof efficiency is low in the attached drawing                                                                                                                                          |
| lisp\text: Unable to recognize unicode in attached program                                                                                                                                          |
| open:ZWCAD opens drawings saved by BricsCAD and blocks cannot be read                                                                                                                               |
| lisp\layerstate-import: Hope to implement the layerstate-import function                                                                                                                            |
| lisp\layerstate-export: The attachment cannot successfully create and export layer states                                                                                                           |

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| explode_layer: Explode the proxy entity in the attached drawing, the layer of the exploded entity is incorrect                                                                        |
| plot\mtext\PDF: The attached drawing was printed using the default PDF printer, and some text in the result could not be printed correctly                                            |
| ZRX\AcDbRegion::createFromCurves: When creating a region from multiple points, the normal direction of the region may be opposite to the direction of the points.                     |
| open: The attached drawing cannot be opened normally                                                                                                                                  |
| LISP: VLA-PUT-HISTORYLINES function is not supported                                                                                                                                  |
| mleader\block\attribute\wipeout: Multiple arrows in the attached drawing, reference blocks as content, blocks contain attributes and masks, attribute grips are displayed incorrectly |
| lisp\vlax-invoke: Loading the attached lisp program, prompt: Illegal number of parameters                                                                                             |
| COPYM: R branch, incorrect preview effect when multiple copy and move attribute blocks                                                                                                |
| dimension: When creating a dimension, the command branch is executed, and the command line prompt information is inaccurate                                                           |
| open: Open the attached drawing. It can be opened normally with ZWCAD, but an error will be reported when opened with AutoCAD.                                                        |
| visualstyles: ZWCAD does not support realistic visual styles and cannot read object materials.                                                                                        |
| mleader\mtext: For the annotation text on multiple arrows, it is hoped that a text box grip can be added to facilitate the control of the text box size.                              |
| OEM: Some customized items are lost after switching Windows users                                                                                                                     |
| dimension: After executing the dimension command, you cannot add annotations based on the selected object                                                                             |
| Publish\plot: Attachment text (specific fonts) printed incorrectly using dwg2pdf                                                                                                      |
| Plot\PDF: When filling an object with Dots, I set the lineweight for the fill, but the PDF does not print the line width                                                              |
| plot\pdf: When printing attached drawings using DWG to PDF.pc5 printer, extra lines appear                                                                                            |
| Osnap/ucs/PLAN: After changing the attached drawing ucs, the capture is obviously laggy                                                                                               |
| Efficiency/open/zoom: The drawing opens normally in Windows 7, but freezes when opened and zoomed in Windows 10                                                                       |
| apload: Loading attachment file, the conversion result after executing command X2 is incorrect                                                                                        |
| OLE: OLE objects in attached drawings cannot be displayed                                                                                                                             |
| ZRX\AcGeCurveSurfInt::numIntPoints: Execute the attached code, the interface returns an error result                                                                                  |
| Plot: Print the attached drawing as PDF, and the dimension text becomes vertical                                                                                                      |
| RefEdit: Unable to add out-of-block objects when editing in-place in attachment drawings                                                                                              |
| scale: After enlarging the block, the dotted line type in the block is deformed                                                                                                       |
| dimension_text: The text color of dimension annotations is expected to add true color selection                                                                                       |

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| and color set selection panels                                                                                                                                       |
| field_block: The fields in the attached drawing that are used as blocks are invalid.                                                                                 |
| PSLTSCALE: The system variable PSLTSCALE is not independent in each layout space                                                                                     |
| MTEXT: The display effect of Syriac text in the attached drawings is inconsistent with ACAD                                                                          |
| Patches: The Japanese version of ZWCAD prompts need to be modified to Japanese                                                                                       |
| open\saveas\new\export: Modal window cannot be resized after becoming larger                                                                                         |
| linetype: The linetype is not displayed correctly on the external reference of the attached drawing A-051~061 단위세대평면도.dwg                                            |
| xclip/block: Block elements are clipped normally and saved, but the clipping display is incorrect after opening the drawing                                          |
| ZRX\AcDb3dSolid::extrude: Generate a face region with a polyline whose vertex coordinates are in the clockwise direction. The direction is incorrect after extrusion |
| Superhatch: Create superhatch multiple times, the form of superhatch group is lost                                                                                   |
| ZRX: The attached ZRX program failed to create a bubble prompt in the status bar                                                                                     |
| Open: The attached drawing "TriCam_GLMPXA_2020.01.10.dwg" was created with zwcad and cannot be opened in acad                                                        |
| minsert: When the xyz ratios of multiple block insertions are all 1, the 41.42.43.210 group code is missing                                                          |
| Plot: ZWCAD2020 custom drawing size is not printed correctly on DocuWorks Printer                                                                                    |
| pface/properties: Select the polyface mesh and switch the vertex without the current vertex mark in the property bar                                                 |
| Hatch\Boundary: Recreated fill boundary is incorrect                                                                                                                 |
| refedit/dual-screen: When the taskbar is not at the bottom, the in-place editing toolbar sometimes flies out of the software                                         |
| solprof: The lines of the arc entity converted to 2D are inconsistent with ACAD                                                                                      |
| pdfimport: The software freezes when importing drawings from PDF attachments                                                                                         |
| ZwSizeDrive: Wrong result from size drive function                                                                                                                   |
| union: The attached drawings cannot complete the union operation                                                                                                     |
| ZRX: The call of AcGiWorldDraw::polyline when executing worlddraw on 3D entities in wireframe mode is inconsistent with acad                                         |
| ZRX\ZcEdSolidSubentitySelector::selectFacesThis interface is not implemented                                                                                         |
| open_aemp: The building water, heating and electricity drawings are not fully displayed (coordinates and some lines are not displayed)                               |
| osnap: attachment grid cannot capture feature points                                                                                                                 |
| Plot\pdf: The attached file is printed using dwg to pdf, and the resulting pdf does not show the small circle                                                        |
| lisp: After ZWCAD is loaded, the shortcut keys are no longer usable                                                                                                  |
| recover: fix the problem of attachment drawings being unresponsive for a long time                                                                                   |
| Lisp/boundary: Repeatedly selecting points in the same region will produce redundant boundaries                                                                      |

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| open\recover: The program interface will get stuck after opening the attached drawing with ZWCAD2020                                          |
| cui\mouse button: The command macro contains a backslash (\), and the coordinates of the cross cursor are not read when the button is clicked |
| solprof: The converted graphics, zwcad and AutoCAD results are inconsistent                                                                   |
| Properties/text: When in-place editing of text, any position in the property bar selected by the cursor can be stretched                      |
| dist: ZWCAD2020 opens the attached drawing and executes the DI command, which freezes                                                         |
| plot_dwf: When printing or publishing to DWF, the line width in the drawing is not displayed                                                  |
| 3D\Visual style: The layout small viewport uses Hidden mode, and after saving and reopening, it changes back to 2D wireframe mode             |
| lisp\entmake: entmake passed nil, prompting incompatible with acad                                                                            |
| open: The attachment drawing opens very slowly                                                                                                |
| There is a conflict in the definition of ZRX\AcDb::BoolOperType                                                                               |
| Plot: When printing DWG to DWF, the spacing between text is inconsistent with the original drawing                                            |
| Solid\Shademode: 3D solid body shading display effect is incorrect when the bounding box is too large                                         |
| lisp\entmod: entmod cannot refresh attachment drawing block references                                                                        |
| Transparency: 3D solid transparency is not displayed correctly                                                                                |
| lookup: When locking all entities in the attached drawing, the objects disappear and are not displayed                                        |
| Open/block: Block references in attached dxf files are not fully displayed                                                                    |
| Dimension/explode: The dimension text size of the attached drawing is incorrect after the block is exploded.                                  |
| select: Select overlapping entities with different colors, the highlighting effect is inconsistent with acad                                  |
| Translation: ZWCAD Czech interface translation correction                                                                                     |
| open_regen: The curves of the attached drawing are not smooth after opening                                                                   |
| Translation\KOR: ZWCAD Korean interface translation correction                                                                                |
| 4K: Grip menu font size is too small                                                                                                          |
| CTRL+double-click: You can directly edit the attributes in the attribute block                                                                |
| properties: I hope the properties on the properties panel can be arranged more closely.                                                       |
| mirror/dim: The dimensions in the drawing are displayed abnormally after using the CAD mirror function                                        |

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| block\multileader: In the attachment drawing, when moving the leader text in a dynamic block, the arrows do not behave correctly                                             |
| region: Draworder is not valid for the region when shading the plane or volume                                                                                               |
| mtext: Cursor position is incorrect when editing Hebrew text                                                                                                                 |
| ZRX: Interface AcDbEntity::intersectWith returns an incorrect value                                                                                                          |
| layout: After clicking the "Regenerate" dialog button, the cursor turns into a prohibition symbol                                                                            |
| Link error occurs in zrx\CZdUiGroupCtrl and CZdUiCoupledGroupCtrl                                                                                                            |
| explode_mesh: The mesh object in the attached drawing cannot be exploded                                                                                                     |
| pdfattach: PDF basemap insertion, zooming, panning, and snapping are very slow                                                                                               |
| Temporary objects drawn by ZRX\acedGrDraw do not disappear                                                                                                                   |
| button document pushpin: pushpin icon is not fully displayed                                                                                                                 |
| Plot: The A2 paper selected in the "HP Designjet T730" printer is actually printed on A4 paper                                                                               |
| linetype\line: When drawing lines in the attached drawing using a specific line type, the position of the text in the line type is incorrect when drawing from right to left |
| menuload: cad opens without menu, and cannot load menu file                                                                                                                  |
| open: Open the attachment file, the layout content is not displayed completely                                                                                               |
| OLE\Copypclip\Pasteclip: Because the attached drawing contains OLE objects, many objects are lost when all are selected, copied and pasted into Word.                        |
| Plot: When the customer prints a large drawing to PDF, ZWCAD2020 is about 50s slower than ACAD2010, and the PDF file is too large.                                           |
| explode\block: The command response time is too long and the customer drawing cannot be exploded.                                                                            |
| transparency\3Dsolid: Create a 3D solid object, then set the transparency so that you cannot see through the solid objects created after it                                  |
| Plot: Printing Thai text preview and results are incorrect                                                                                                                   |
| xclip: Text borders are not smooth after clipping                                                                                                                            |
| BLOCK: Block content displayed incorrectly in drawings                                                                                                                       |
| UI/classic: The fonts of menu items in the classic interface are displayed abnormally, the text spacing is too small, and the display effect is unclear                      |
| command line: I hope the command line will open the branch option by default in the form of a button                                                                         |
| Xref: External reference tree view is not displayed correctly                                                                                                                |
| dimstyle: When the text height of the current dimension style is set to a small value, the text in the preview is not clear                                                  |
| break: After executing the "Break at point" operation, click enter or space, and the "Break" operation will be executed again                                                |
| Dimension: ucs changed, the position of the newly created dimension text is incorrect                                                                                        |
| Zwplot: The page size direction of zwplot batch intelligent printing is inconsistent with plot                                                                               |
| NLMTS: The opt file in the network service component does not support the MAX_BORROW_HOURS and BORROW_LOWWATER parameters                                                    |
| dynblock_gripedit: Dynamic block grip stretching incorrect in attachment drawings                                                                                            |
| open: Raster images in attached drawings cannot be displayed                                                                                                                 |

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| layout\lineweight: The attached drawing still does not display line weight even when line weight display is turned on in the layout                                         |
| The scroll bar is missing in the undo:undo list                                                                                                                             |
| open: After loading swr_ArchCore.zrx, the Tianzheng entity cannot be displayed when opening the drawing.                                                                    |
| lisp\vla-SaveAs: After saving the dxf file to a network path, the original file is not released                                                                             |
| Block/text:Block references in attached drawings are not displayed correctly in ZWCAD2021                                                                                   |
| dynblock/gripedit: Dynamic block grips are not displayed in attached drawings                                                                                               |
| Plot: Drawings containing images or PDF files are larger when printed as PDF than ACAD                                                                                      |
| plotstamp: Cannot add custom fields for plot stamp when using macro definition                                                                                              |
| Linetype: After the custom line type object in the drawing is copied into the custom DWT template, the line type style changes                                              |
| Plot: The Thai text in the attachment is not printed correctly                                                                                                              |
| shademode/layout: When the visual style in the viewport is shaded, the layout is scaled and the memory usage increases                                                      |
| zoom: Using the mouse wheel to zoom the attachment layout space drawing is very laggy.                                                                                      |
| find: zwcad cannot find the symbol "\".                                                                                                                                     |
| 4k\layer: On 4K high-resolution screens, with large display ratios, the text in the layer manager is not fully displayed.                                                   |
| Lisp: creating fill via attachment lisp, origin invalidated                                                                                                                 |
| COM\lisp: The cursor sometimes does not appear when selecting in the add-on program                                                                                         |
| battman: Adjust the position of the attribute in the block attribute manager, and the attribute position in the applied block will change                                   |
| Scale: It is recommended to display part of the object first and then display the whole object gradually each time you move the mouse.                                      |
| BOUNDARY: Insufficient precision in creating arc boundaries                                                                                                                 |
| line_offset: When creating or editing entities in the fill area of the attached drawing, extra lines will be generated                                                      |
| viewport\zoom\pan: Double-click the overlapping viewport to activate the lower viewport                                                                                     |
| layout: When the text size is set to 100% in ZWCAD2021, the text of model, layout, etc. becomes extremely small                                                             |
| Publish: The result is incorrect when publishing in the background with the page settings set as the print area                                                             |
| EATTEDIT/ATTSYNC/BATTMAN: In the attached drawing, the block attribute mark on the right did not correspond to the prompt, resulting in abnormal attribute synchronization. |
| ZRX\Tianzheng HVAC: After copying the attached drawing in Tianzheng HVAC, it will be stuck for several seconds                                                              |

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| refedit: After editing an external reference with refedit, if you execute undo to undo the refedit edit, the saved edit cannot be undone.     |
| After opening the attached drawing and printing the PDF using ZWCAD2021, I found that the printed PDF was blurry after enlarging it.          |
| Annotative: Block annotative settings have no effect when "Automatically add scale to annotation objects when annotation scale changes" is on |
| The viewport magnification effect is abnormal after selecting a specific plot style                                                           |
| wipeout: When selecting a blank area inside a wipeout object in an attached drawing, the wipeout object should not be selected.               |
| 3DSolid: After attaching the Flystar, the window model in the 3D view is not displayed completely.                                            |
| zoom\xclip: Incorrect ZOOM-E effect after clipping the external reference in the attached drawing                                             |
| Plot: Some objects were not printed successfully after printing on large-size paper attached                                                  |
| extrude: Wrong result of stretching along the path                                                                                            |
| statusbar: The icons on the status bar appear to overlap when the program width is reduced                                                    |
| Hatch: Hatch Pattern Palette window cannot be stretched                                                                                       |
| Highlight: When the cross cursor moves to a table or fill element, the element cannot be highlighted.                                         |
| COM\VBA: After using the SaveAs method to save as a dxf file, the original file is prompted as read when opened                               |
| pastespec\block: After adjusting the block ratio, the exploded content will not be displayed                                                  |
| PLOT: When using attachment styles, the print preview zoom line width is not differentiated enough                                            |
| 3dorbit: Dynamic observation and acad effects do not match                                                                                    |
| Hope to optimize the highlighting effect of hovering and selecting graphics                                                                   |
| When running the SS command of the attachment plugin, the section line shape is incorrect                                                     |
| table: Copying a table will cause the numbers in some cells in the table to become 4 decimal places, causing the table to be deformed         |
| lisp\vla-update: The attached code takes a long time to execute Vla-update                                                                    |
| Insert: Block attributes in the attached drawing are shifted after the block is inserted                                                      |
| FACETRES: Invalid system variable setting                                                                                                     |
| SAVE: Cannot save after creating annotation                                                                                                   |
| wblock: No correctness judgment on target path                                                                                                |
| mtedit: When editing text, the cursor is displayed incorrectly                                                                                |
| Pagesetup: After modifying the print range in the page setup manager, confirm it and then open it to find that the settings are invalid       |

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| display: The drawing disappears directly after being displayed in CAD                                                                                                        |
| xref: Attachment drawing, external references in the drawing cannot be displayed in the external reference manager                                                           |
| crosshair: The crosshair cursor is not displayed on external reference entities with line width                                                                              |
| ZRX\AcDbMentalRayRenderSettings: Link error when compiling                                                                                                                   |
| xref: Reference Manager does not display reference object information after stretching the internal display layout                                                           |
| layer_xref: After changing the layer name in the external reference and reloading, the layer manager did not change the name of the original layer in time but added a layer |
| arrayedit: cannot 'edit source' for nested arrays                                                                                                                            |
| layer\Leader\block: Attached drawing, the layer is closed, but the leader on this layer will be displayed residually                                                         |
| shademode: Under flat shading, the 3D entities without transparency in the attached drawings show the transparency effect                                                    |
| DWF: The line width of the DWF drawing generated by ZWCAD is incorrect after importing or opening it in Design Review                                                        |
| PASTESPEC: Paste link to ZWCAD entity with wrong result                                                                                                                      |
| ole\copyclip\pasteclip: When copying the attached drawing to Excel, Korean text is displayed in garbled characters and Japanese text is displayed incorrectly                |
| zoom\spline: After the wheel is zoomed, the spline is displayed as a polyline or a straight line                                                                             |
| mtext: The display effect of attachment multi-line text in ZWCAD is inconsistent with ACAD                                                                                   |
| xref: Nested references in attachment drawing X_Elev.dwg failed to load                                                                                                      |
| lisp: read-line reads a file encoded as utf-16 LE and the result is incorrect                                                                                                |
| image: Raster images in attached drawings are not displayed correctly and are recognized as proxy objects                                                                    |
| shademode/transparency: In shaded mode, entities containing transparency displayed incorrectly after operation.                                                              |
| Dynamic input: After entering the first letter of a command, the mouse moves in the dynamic input box and cannot dynamically preselect a command.                            |
| open/block: Blocks created in ZWCAD are not displayed in ACAD                                                                                                                |
| mleader: After editing multiple leaders in attachments, the edit box position is offset                                                                                      |
| options\cursor: When setting the background color to light, the text editor cursor does not automatically invert                                                             |
| Unable to uninstall ZWCAD in Windows Apps and Features                                                                                                                       |
| rename: When selecting all blocks by wildcard during renaming, the first one is not selected                                                                                 |
| Plot: Raster image printing is very unclear compared to ACAD                                                                                                                 |
| select\display: Display difference of two overlapping objects of different colors by selecting them                                                                          |

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| select: When an overlapping object is selected, the color of the object behind it should be displayed to indicate that there is an overlapping object.                                              |
| rename: When renaming a block using a wildcard, the first block name cannot be selected                                                                                                             |
| pdfimport: Import the attached pdf file, the text is split                                                                                                                                          |
| osnap: Unable to snap to intersection of two center lines                                                                                                                                           |
| PROPERTIES\DIMRADIUS\DIMDIAMETER: Created diameter and radius dimensions cannot change "Vertical text placement" through the properties palette                                                     |
| DIMSTYLE: Incorrect preview of style overrides in attachment drawings                                                                                                                               |
| zwplot: When executing smart batch printing - printing an existing layout, the drawing printing range is incorrect                                                                                  |
| attsync: The result of synchronizing properties of attachment drawings using attsync is incorrect                                                                                                   |
| options: Toolbar large button optimization                                                                                                                                                          |
| WBLOCK\ESC: Click the point selection control and press ESC to cancel. The point coordinates will be displayed even if no point is selected.                                                        |
| _zvalto0: The _zvalto0 command cannot change the Z coordinate of the attribute text to 0                                                                                                            |
| help: The check line link function in the help cannot be opened                                                                                                                                     |
| lineweight: When opening the attached drawing with ZWCAD2020, the lineweight can be displayed normally on the model, but it cannot be displayed normally on the layout                              |
| Flatshot: When projecting the lofted entities of the attached drawings, the response time after clicking "Create" is too long (about 70s), and the entity projection image is displayed incorrectly |
| Flatshot: The projection pattern of the torus after flatshot is not displayed correctly                                                                                                             |
| attsync: After changing the attribute value of the dynamic block in the attached drawing, the text position is displayed incorrectly using ATTSYNC                                                  |
| pdfimport: After PDF import, the imported graphics will display abnormally                                                                                                                          |
| Refedit: Edit block references in-place in attached drawings, and objects are lost after saving (actually the objects are offset to other places)                                                   |
| ZRX: Missing AcRxObject::className() method                                                                                                                                                         |
| BLOCK\XCLIP: Block reference in attachment does not display correctly                                                                                                                               |
| display: Incorrect display of entities in viewports of realistic visual style in attached drawings                                                                                                  |
| MATCHPROP: Format Painter logo is obscured by command prompt                                                                                                                                        |
| ZRX\insert: Some entities in the attached drawing are not displayed when inserting AcDbDatabase::insert()                                                                                           |
| plot/zoomwheel: When the system variable is set to 1, the scroll wheel operation direction during print preview does not match the setting                                                          |
| Select: The title block in the attached drawing is not easy to select                                                                                                                               |

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| DIMCONTINUE: In the attached drawing, the result is incorrect when selecting different locations of the dimension limit of the base dimension for continuous dimensioning                                           |
| [User feedback] plotstamp: plotstamp cancel creation of print log file setting is invalid                                                                                                                           |
| OPEN: After multiple drawings were edited and saved by ZWCAD, ACAD could not open them                                                                                                                              |
| etransmit: Packed file fonts are incomplete                                                                                                                                                                         |
| Transparency: You want transparent objects to remain transparent when they are selected, moved, rotated, copied, etc.                                                                                               |
| The generated PDF file, viewed in the Adobe browser, shows the wrong lines                                                                                                                                          |
| zwplot: Printing an existing layout in the attached drawing, the preview and print results are incorrect                                                                                                            |
| wblock: write external block. If the file name contains ., an extension must be added to succeed.                                                                                                                   |
| ZOOM: When the attached drawing is zoomed to a certain size, objects in the layout space will disappear                                                                                                             |
| xref: After specifying a new path for a missing external reference, a prompt for automatically changing the path in batches needs to be added                                                                       |
| zrx:getMTextAttribute gets the wrong mtext                                                                                                                                                                          |
| open/dwfx: When opening the attached dwfx drawing in ZWCAD2021, the layout space name of the drawing is displayed incorrectly                                                                                       |
| OP/selection: Cancel and then select "Select first, then execute (N)". After applying and confirming, the program remembers the status of the first cancellation of the "Select first, then execute (N)" operation. |
| copy\block: Batch copy blocks by specifying coordinate points, which is inefficient                                                                                                                                 |
| pdfimport: xy scale changes after importing pdf                                                                                                                                                                     |
| dimlinear\scale: During the annotation process, it is not supported to adjust the global scale by inputting scale                                                                                                   |
| lisp: vla-put-activePviewport setting the current viewport is invalid                                                                                                                                               |
| UCS\dimordinate\dimbaseline: After changing UCS, using coordinate annotation as baseline, and then using baseline annotation in the wrong direction                                                                 |
| superhatch: When the command line prompts "Are you sure you want to use this location?" during superhatch, if you select N, the superhatch dialog box will not pop up.                                              |
| array: The attached drawing uses dynamic blocks as array objects, and the color of the dynamic blocks is displayed incorrectly after arraying.                                                                      |
| Stretch: Incorrect labeling in stretch attachment                                                                                                                                                                   |
| dwg2sxf: Unable to convert 3.dwg                                                                                                                                                                                    |

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| pdfattach: attach PDF basemap special card                                                                                                                                    |
| license: In the new version of the license manager, the icon for returning the license should be optimized.                                                                   |
| ZRX: AcRxValueType not supported                                                                                                                                              |
| Bedit: Dimension changes after entering block editing                                                                                                                         |
| save: When saving the attached drawing "Zhongjun Phase III Pressurized Water Supply.dwg", there is a freeze and long delay                                                    |
| refedit: When editing a reference object in place, close the current drawing, and the prompt is still in the reference editing process when executing commands such as export |
| FIND: When you want to use the FIND command to replace text in a block, a pop-up window will appear to prompt you to select a replacement method.                             |
| open: The attached drawing is damaged after opening it with ZWCAD                                                                                                             |
| Arraypath: Path array result error                                                                                                                                            |
| 3D\ORBIT\PAN\ZOOM: The efficiency of zooming, translating and rotating 3D entities in attached drawings is poor                                                               |
| dimbreak: Multileaders cannot be used as break objects to break annotations                                                                                                   |
| open/dwfattach/dwf: Open and insert text with a background mask that obscures the text information.                                                                           |
| AcEdJig\acquirePoint\acquireDist: The mouse cursor style is incorrect when using the interactive interface to collect data without using the sampler                          |
| 4K\Display: The font name is not fully displayed in the dialog box for specifying replacement fonts at 4K resolution                                                          |
| Hatch: Attached drawing, the hatch command does not recognize the hatch boundary                                                                                              |
| save: The attached drawing loses the 3D entity object of the drawing after saving in ZW2020                                                                                   |
| osnap: In the attached drawings, there will be delays and freezes when drawing lines/polylines/circles/rectangles and other drawing commands                                  |
| NLMTS: Added the ability to set borrowing periods and maintain the number of available license pools                                                                          |
| import: sat file display quality is poor in shaded mode                                                                                                                       |
| After installation, there are multiple repeated words "Other" in the industry options on the questionnaire page                                                               |
| zoom: During the command execution, the drawing zoom range becomes smaller, making it easier to trigger the zoom limit                                                        |
| lisp\vla-GetCellValue: returns nil in attachment procedure                                                                                                                    |
| VBA\LoadZrx: After adding a search path, loading zrx in the new path will fail immediately                                                                                    |

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| open: The proxy entity in the drawing does not display properties on the zwcad platform                                                           |
| bedit: After entering block editing, the "Close Block Editor" text icon displays overlap                                                          |
| ARRAYPATH: Redefine base point effect incorrect                                                                                                   |
| open: The drawings in the attachment are stuck when opened                                                                                        |
| Table: If there are brackets in the calculation in the table, the result will not be displayed                                                    |
| Plot: Printing 255 indexed color objects does not produce the correct result                                                                      |
| rename: Incomplete display of blocks in the rename block object list                                                                              |
| ddedit: The stretch grip of a dynamic block does not support inputting the numerical value of the stretch parameter                               |
| refedit\cycleselection: When executing the refedit command, the cycle selection effect is incorrect                                               |
| Trial: I hope that the limitation of the trial version will be highlighted in the message that it cannot be saved.                                |
| ZRX\AcDbPolyline::getOffsetCurves: When the polyline vertex is empty, calling this interface takes a long time                                    |
| 3D: 3D shading does not display well                                                                                                              |
| bedit\refedit: After editing a block reference in-place in an attachment drawing, other unedited block references are offset                      |
| Xref: Failed to bind the external reference of the attached drawing                                                                               |
| lisp: The attached program freezes after selecting an entity                                                                                      |
| Properties: Zooming the view causes the controls in the Properties palette to flicker erratically                                                 |
| Model: When opening the attached drawing and switching to the model space, it will get stuck                                                      |
| xclip: Dragging the reference cropping border causes a freeze                                                                                     |
| hatch: Attachment drawing fill display abnormality                                                                                                |
| open: The attached dwf file displays an error after opening it with zwcad                                                                         |
| ZRX: The declaration of the non-documented interface zcedPostCommand is inconsistent with that of competing products                              |
| zwplot: attachment drawing print layout border missing                                                                                            |
| Swell Interpreter/CommandLine: After entering a command in the command line, it is not supported to execute branch commands by clicking the mouse |
| shademode/hide: In the hidden visual style, the outlines overlap when zooming in on a 3D entity                                                   |
| array: Display is abnormal after modifying the number of array columns                                                                            |
| laylck/ucs: When the viewport layer is locked, the UCS command cannot be executed after entering the viewport                                     |
| Publish\dsd: "Publish Options" and other settings are not saved in the dsd file                                                                   |

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| [User Communication Group Feedback] RefEdit: When editing a block in place, when you press the ctrl key and drag the entity grip to copy, the copied entity is grayed out |
| view: Editing borders in the view editor does not work                                                                                                                    |
| lweight: When the annotation text is in shx font, its line width will not change with the change of the annotation line width                                             |
| Lisp: The results after loading the attached Lisp are inconsistent with ACAD                                                                                              |
| Plot: In the attached drawing, after executing the print pdf operation multiple times, the drawing area becomes unresponsive                                              |
| PDFPLOT: OLE images in the attached file layout cannot be printed when the DPI is set to 500 or higher                                                                    |
| help: The help document will not record the last adjusted window size after restoring from maximization                                                                   |
| [2025 1.2 Quality Assurance Test] Help: ZWCAD and the help documents of the architecture, machinery, landscape and other versions cannot be opened at the same time       |
| xline: Open the attached drawing without showing the construction lines                                                                                                   |
| ZRX\AcDbMaterial\setMaterial: Setting 3D solid material does not work correctly                                                                                           |
| ZRX_acedSSGet does not support :V or :U mode to select sub-entities                                                                                                       |
| Options: The coloring effect cannot be displayed when the layout space cross cursor is set to "color the X, Y, and Z axes"                                                |
| ZRX: acdbConvertGelibCurveToAcDbCurve is not implemented                                                                                                                  |
| shademode/OLE: In hidden and shaded modes, OLE objects only display borders                                                                                               |
| shademode: In non-wireframe visual styles, temporary entities during 3D entity movement, rotation, scaling, and grip editing are wireframe                                |
| lisp: Hope to support correct recognition of utf-8 encoded lsp files                                                                                                      |
| shademode: The lighting effect of 3D entities is poor in shaded mode                                                                                                      |
| select: Objects cannot be selected through the gaps between non-continuous linear objects                                                                                 |
| text: Using romans.shx in the font causes incorrect display of Russian text                                                                                               |
| Image: The jpg image is inserted into the attached drawing, but the image is not displayed                                                                                |
| 3D: The drawings with blocked lines and colors set by competitor A are not effective when opened in ZWCAD                                                                 |
| zwsizedrive: I hope that the export version of ZWCAD will include the "Size Drive" tool in the Chinese version of ZWCAD                                                   |
| array: mirror the associative array first, then copy and paste, and move the array's grip points                                                                          |
| cuix: After loading the attached cuix file, the current document cannot be switched normally through the menu                                                             |
| ZVALTOO: Z-axis flattening does not work for 3D polylines                                                                                                                 |
| [2025 1.2 QA Test] OPTIONS\ITA: It is recommended to change the "Smooth Line" option in the Italian version to English                                                    |

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| xref\relative path: When using a relative path, if the path of the external reference file name is too long, the external reference cannot be loaded.       |
| block\copy: copy a block, the order of the blocks in the copy result is changed                                                                             |
| Document:ZWCAD has serious lag when switching layouts in certain drawings                                                                                   |
| zrx: Hope to export function LoadManagedDll                                                                                                                 |
| arraypath: attachment path array explodes and moves                                                                                                         |
| hatch\plot: There are hidden hatch objects in the attached drawing that are not displayed, but are partially displayed when printed                         |
| ZRX\AcDbSubDMesh::convertToSolid cannot create a 3dSolid that can be displayed correctly                                                                    |
| ZRX_ZcEdCommandStack: 3dorbit command missing from command stack                                                                                            |
| command line: command line options are expected to support highlighting                                                                                     |
| lisp: The display effect is incorrect when executing the attached lisp program                                                                              |
| refedit: When editing an external reference in an attachment, the text in the external reference is not displayed                                           |
| block_rotate: Unexpected breakage during block reference rotation                                                                                           |
| select\block: The block in the attachment cannot be selected and will disappear when the view is scaled.                                                    |
| zoom: When zooming in on the attached drawing, the cursor and ucs coordinates are displayed incorrectly                                                     |
| Xref: Unable to bind attachment xref                                                                                                                        |
| PDFImport: The attached pdf file cannot be imported into ZWCAD                                                                                              |
| [User communication group feedback] dsettings: Drawing/moving and other operations involving dynamic input boxes do not support decimal division operations |
| ZRX\OutputPolylineCallback: The Color value of the first parameter of outputPolyline is always kColorInvisible                                              |
| Hatch: The attached fill entity is displayed differently when opened in ZWCAD2022 and 2018                                                                  |
| pdfimport: After importing a pdf file, some dimension lines of dimension annotations show extra segments                                                    |
| Plot: The attached drawing cannot be printed in black and white using the stb print style                                                                   |
| shademode: When using AMD graphics card, the shading mode makes the view very stuck and occupies a lot of memory                                            |
| UCS/Dimordinate: Creating a coordinate dimension in the horizontal direction under UCS results in incorrect dimensioning                                    |
| ZRX: AcGiDrawable::bounds cannot obtain the maximum and minimum points of the entity                                                                        |
| ZRX: AcDbOle2Frame::getOleClientItem returns a null pointer                                                                                                 |
| Layout: In non-rectangular viewports, image background transparency is not displayed correctly when the image exceeds the viewport boundary                 |
| open: The attached drawing "Desheng Construction Company 1124 Construction Drawing.dwg" cannot be opened                                                    |

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| DIMALIGNED: Incorrect result when using @relative coordinates to specify dimension line position                                                                     |
| Dimension: When opening a DWG drawing exported from SolidEdge, the dimension style list is incorrect                                                                 |
| dim: When opening a drawing saved in ZWCAD2017 and moving or copying annotations, the annotation position is offset                                                  |
| license: ZWCAD 2022 License Management Function Icon Suggestions                                                                                                     |
| PLINE: The result of drawing an arc with a negative angle is wrong                                                                                                   |
| Efficiency\Open\Zoom\Pan: Opening, zooming and panning of attached drawings are inefficient                                                                          |
| Plot: When printing Arabic text, the print display is inconsistent with the drawing                                                                                  |
| REMEMBERFOLDERS: The system variable REMEMBERFOLDERS function is not implemented                                                                                     |
| SDK: Include file name error in dbMultiModesGrip.h                                                                                                                   |
| array: modify the number of circular array items in the feature bar, the graphics remain unchanged                                                                   |
| layout_viewport: Objects in the attached drawing layout viewport are misplaced                                                                                       |
| ZRX: The cad title string obtained by zwGetMainFrameCaptionTitle in 2D sketch and annotation mode is empty                                                           |
| Flatshot: ZWCAD does not respond after executing the flatshot command on the attached drawing                                                                        |
| gripedit/3d: obscured grips are still visible in shaded mode                                                                                                         |
| blockbreak/copy: When executing the copy or rotate command to move the block, the area coverage effect of the block will disappear                                   |
| xref\linetype: After separating the reference, the original system ZIGZAG linetype changes                                                                           |
| pdfimport: After printing out a PDF at a 1:1 ratio, the size of the PDF image is different from the original CAD image when it is imported.                          |
| SELECTIONEFFECT: When the SELECTIONEFFECT value is 1, the highlight halo effect is not displayed well                                                                |
| SHADEMODE: In shading mode, the 3D entity is displayed as a 2D wireframe during the Jig process, and the shading effect is displayed after the drawing is completed. |
| ole: When shademode is 3D wireframe, ole only displays the border after the 3dorbit process and completion.                                                          |
| Vistual style: The layout space small viewport hidden state cannot be saved                                                                                          |
| block: The block reference attribute text in the attachment drawing layout space is not displayed correctly                                                          |
| Bedit: After double-clicking the attached drawing to enter the block editor, the graphics are seriously offset                                                       |
| Plot: Plotting block references with text and lines to dwf files is poor                                                                                             |

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| Dimradius: When the dimension line 1 of the dimension style is hidden, the arc radius dimensioning result is different from AutoCAD                    |
| PUBLISH: When printing to pdf, it is recommended to set password protection to gray in the command                                                     |
| arraypolar: The attached drawing does not function properly when using a circular array                                                                |
| text\plot: When TEXTFILL is set to 0, the text is not displayed as hollow when printing preview or exporting to PDF                                    |
| open: Attachment drawing, when the attribute value is a dynamic block property table, the attribute value is not displayed                             |
| select\stretch: Stretch specifies two coordinate points by window intersection, and the object selection range is incorrect                            |
| The default shortcut keys in ZWCAD do not have the highest priority, which is inconvenient for users to operate.                                       |
| SUPERHATCH : Command branch keywords TAK or T are not recognized when inserting raster images in the Polish version                                    |
| menu: When the cursor is placed below, the command keyword menu is not fully displayed                                                                 |
| field/dim: When inserting a custom object formula into a dimension, the dimension value cannot be updated with the custom object                       |
| Pdfimport: When a large pdf drawing is imported into ZWCAD, ZWCAD becomes unresponsive                                                                 |
| shademode: After changing the shading mode and switching drawings, the cross cursor displays abnormally                                                |
| Lisp: read-line function does not read UTF-8 BOM, UTF-16 LE and UTF-16 BE formatted text correctly                                                     |
| Preview: The preview of DWG cannot be displayed in Windows Explorer.                                                                                   |
| document:ZWCAD drawing icons do not display in large icon mode                                                                                         |
| XREF: XREF images in attached drawings are not displayed                                                                                               |
| shademode: In the axial view, after setting the shading mode, the cross cursor will turn red and green when switching to other drawings                |
| zoom: During zooming, the xline display is partially lost                                                                                              |
| solprof: Generated contour lines in attached drawings are inaccurate                                                                                   |
| OLE: OLE illustrations in attached drawings cannot be displayed                                                                                        |
| ZRX: AcBrMesh2d, AcBrMesh2dControl, AcBrNode related interfaces are not implemented                                                                    |
| Array: After dragging the matrix grip in the attachment drawing, some graphics are not displayed                                                       |
| pdfImport: The import effect of the attached drawing is not good after checking the raster image, and the efficiency is very low                       |
| ZRX: AcGiSubEntityTraits::setMaterial function does not work correctly                                                                                 |
| Sweep: Sweep results are inconsistent with ACAD                                                                                                        |
| copyclip: When copying the attached drawing, there are online and offline dimension annotations, and the lines are missing when there is a background. |

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| LISP: Load the attached LSP file, and execute some of its functions to prompt unknown commands                                                                                    |
| Shademode: The attached drawings are not realistic enough                                                                                                                         |
| dimstyle: Create a substyle based on a substyle, the basic style will change                                                                                                      |
| BlockBreak: When inserting a block using the block break function, the previous block break attribute is lost after copying and pasting.                                          |
| Plot: The dotted line printing effect is not clear enough, worse than ACAD and ZWCAD 2020                                                                                         |
| ole\ucs: Double-clicking the ole object in ucs does not open word                                                                                                                 |
| -wblcok: It is not possible to specify a specific save format in the -wblock dialog box                                                                                           |
| License: After the customer's WIN11 computer system was updated, the CAD license was lost                                                                                         |
| Printing: When printing the attached drawing using dwg to pdf, the Thai text is not displayed correctly                                                                           |
| dim: The effect of flipping the linear dimension arrow is inconsistent with ACAD                                                                                                  |
| Plot: The software freezes when printing drawings containing Source Hana fonts                                                                                                    |
| ZRX: Using ZcDbEntity in the custom entity _ACRX_DXF_DEFINE_MEMBERS macro parameter causes the program to fail to load                                                            |
| AIDIMTEXTMOVE: After the annotation text in the attached file is moved, the underline of the text disappears                                                                      |
| install: When the folder of the deployment installation path does not exist, it is hoped that the corresponding folder will be automatically created on the user's computer       |
| shademode: The colors of the 3D faces of the attached drawings are not displayed correctly in shaded mode                                                                         |
| startup:.net exception, start ZWCAD, the software crashes directly, hope to give a clear prompt                                                                                   |
| open: Attachment drawing, open prompt to repair, after repair the entity is lost                                                                                                  |
| 3d\dispaly: The details of the attached drawings after coloring are worse than those of competing products                                                                        |
| pdfimport: After importing the attached drawing, it prompts that no objects have been entered                                                                                     |
| Xref\zoom: When the external reference contains a PDF file, the drawing zoom and pan efficiency is low                                                                            |
| Plot: Attached drawing, printed as pdf, pdf cannot be opened                                                                                                                      |
| When the 3D graphics are printed in black and white, the display effect has a three-dimensional effect with different grayscales (light gray and dark), rather than a black mass. |
| Display: The attached drawing is missing some graphics after opening                                                                                                              |

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| ZWCAD cannot effectively read the viewport clipping data in R14 format drawings                                                                 |
| Plot: Cannot add plot stamp to attached drawing                                                                                                 |
| save: save the attached drawings, some of which are marked with positions                                                                       |
| Selectsimilar\cht: The selectsimilar operation on the attachment drawing is invalid in the Traditional Chinese system                           |
| zoom: The zoom of drawings containing ole objects is stuck                                                                                      |
| dwf/display: Text in attached dwf file is not displayed correctly                                                                               |
| help: When the display zoom setting is not 100%, the help interface close button is blurred                                                     |
| plot_dwf: DWF files printed using dwg to pdf are labeled as color blocks                                                                        |
| dynblock: Drag and drop attachment dynamic block stretch grip, after entering distance, distance change value is incorrect                      |
| ZRX: The layer line type set by AcGiSubEntityTraits::setLayer is not applied                                                                    |
| linetype: After changing the line type to Hidden, the line type in the property panel will become three-dimensional hidden                      |
| dwt_display:ZWCAD uses AutoCAD's acadiso3D.dwt template, the cross cursor is offset                                                             |
| dim: The display effect of annotation text with fill and text replacement line break is incorrect                                               |
| [Open and Save] open: The attached drawing "201106-DAR-SCHEDULE.dwg" opens without response                                                     |
| ZRX: AcDbCurve::extend interface extends the arc incorrectly                                                                                    |
| feedback: Some phone numbers on the feedback page cannot be submitted                                                                           |
| purge: Two texts in the attachment are cleaned up when cleaning empty text objects.                                                             |
| Text: When double-clicking a single-line text, the symbol separating the parts of the text cannot be recognized                                 |
| ZVALTOO: Z axis zero tool does not work for block reference and circular array objects                                                          |
| xclip: Attached drawing, cannot display reverse clipping effect                                                                                 |
| pdfimport: The text color of the attached drawing is different after importing, and the effect is not good                                      |
| 3dorbit: A 3D drawing saved in the 2D wireframe style of "Aircraft_V3.dwg" may freeze when performing 3D dynamic observation for the first time |
| 3dorbit: The attachment drawing freezes when selecting an entity for dynamic observation.                                                       |
| Plot: When printing preview, the graphic display loses the border after multiple zoom operations                                                |
| copy: Select all entities in the attached drawing to perform the copy operation, and some entities will be lost.                                |

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| osnap: There is an error in the quadrant point snapping of an ellipse drawn with a polyline                                                                                               |
| optiosn: Create a new drawing using the attached acadiso3D.dwt template and change the cross cursor to the maximum display error                                                          |
| Plot: There is a color difference between ZWCAD and ACAD color printing (Color 69)                                                                                                        |
| UNITS\DIMSTYLE: Arrow size in dimension style cannot be set to decimal when length precision is 0                                                                                         |
| array: any edit operation on the associative array in the attached drawing will cause the associative array to disappear                                                                  |
| ddedit: If you write text below the line when marking a diameter, the text position on the line will be offset downward after the tolerance is added                                      |
| table: Copy the excel content, selectively paste it into the ZWCAD element, select the cell, and switch the text style.                                                                   |
| Plot: There is a color difference between ZWCAD and ACAD color printing                                                                                                                   |
| Mslide\ttf: The text created with ttf font is displayed as hollow after the created slide file is exported                                                                                |
| osnap: When zooming in on a view, it is difficult to snap to the intersection of dashed lines                                                                                             |
| VBA: ZcadMText.FieldCode() method return value is empty                                                                                                                                   |
| ZVALTOO: Z-axis zeroing function is not accurate enough                                                                                                                                   |
| Zrx: Incorrect return value for calling wblock() interface on dynamic block                                                                                                               |
| wmfout\wmfin: The text in the attachment is displayed as garbled characters after being exported to wmf and then imported                                                                 |
| zoom: When the drawing is zoomed out to a certain extent, the horizontal bar in the middle of the text will disappear.                                                                    |
| block: Select the object first and then redefine the block, which may fail occasionally.                                                                                                  |
| array: Modifying the number of array items in attachment drawings does not work                                                                                                           |
| zoom: When the attached drawing is zoomed in, the overlapping lines are not displayed overlapping                                                                                         |
| [Regression test] hatch/boundary: When the attachment entity is enlarged to an incomplete display, it cannot be filled/closed by a boundary, and the message "No valid boundary found" is |
| dimlinear: Annotation arrows are not displayed correctly in attached dxf drawings                                                                                                         |
| Hatch: When using the "Inherit Properties" feature in hatch, the "Create Separate Hatch" selection state is not remembered                                                                |
| plot: Using DWG to PDF, the file size printed by ZWCAD is twice as large as that of ACAD                                                                                                  |
| shademode: The display effect of 3D objects in attached drawings is poor in shaded mode                                                                                                   |
| -OSNAP: Cannot use "+" to connect multiple capture modes                                                                                                                                  |

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| lisp: ZWCAD cannot run the Qiufeng BatchPlot 3.6.1 batch printing plug-in normally                                                                       |
| ZRX\Jig: After inputting (Command) during the process, the document is abnormal and cannot be closed                                                     |
| regen\zoom\pan: After regeneration, it is easy to zoom and pan during command execution                                                                  |
| array: Associative arrays in attached drawings cannot be edited                                                                                          |
| [Regression test] display/dimension: dimension arrows are displayed as hollow in hidden mode                                                             |
| zwplot: Batch printing uses scattered lines to identify the frame, and cannot identify polylines with a global width not equal to 0                      |
| zpwlot: Intelligent printing frame quantity recognition error                                                                                            |
| plot\pagesetup: incorrect figure range when entering page setup and printing layout                                                                      |
| Import: Import the attached wmf file, and the display effect is incorrect after decomposing the graphics                                                 |
| Cross cursor: The cursor display of the attachment drawing layout in a specific view is inconsistent with ACAD                                           |
| arcgis: Want to add GIS server example URL                                                                                                               |
| Plot: If the user-defined field in the plot stamp setting starts with a space, the stamp cannot be printed                                               |
| Explode: The efficiency of exploding a large number of attached entities is low                                                                          |
| dwfattach: When inserting a dwf drawing in an attachment, some graphics are displayed incorrectly or unclearly                                           |
| layout: Arc length annotations and polylines are not displayed correctly in the layout space of the attached drawings                                    |
| Block: The block reference display in the attached drawing is inconsistent with ACAD                                                                     |
| Plot: When printing Thai text, the preview image and the printed PDF drawing are inconsistent                                                            |
| osnap: Unable to snap nodes of dimension extension lines in attached drawings                                                                            |
| Plot: The PDF file generated by printing a block reference containing clipping is too large                                                              |
| Zwplot: When selecting a clipped block reference by scattered lines, the number of recognized frames is incorrect                                        |
| copy\block\undo: copy the block reference, explode it, and redefine it. Execute Undo, and the original block reference is not restored immediately.      |
| ZRX\AcDbEntity::intersectWith: The intersection array returned by the intersectWith method is incorrect in the case of extremely large/small coordinates |
| table_pasteclip: The contents of the attached table are not fully displayed after selective pasting into CAD                                             |
| hatch: hatch objects are not displayed correctly in the attached drawings                                                                                |
| copy\move: When copying or moving in the attached drawing, the drawing may freeze or flicker after specifying the base point.                            |

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| pdfimport: When importing a PDF attachment, some text objects are not recognized correctly                                                                   |
| zoom: Hope to improve the zoom level of zwcad2022                                                                                                            |
| Display: 3D entity grip boundary display is incomplete                                                                                                       |
| ZRX\AcDbBlockTable.getAt: After the block name is changed to an anonymous block, the block record cannot be obtained according to the anonymous block name   |
| When zooming to the maximum scale, lines are missing in the drawn graphics.                                                                                  |
| select: When using the shift key for shortcut operation in CAD, it is hoped that the switch between Chinese and English input methods will not be triggered  |
| Plot\PDF: DWG to PDF prints dashed line segments, the PDF file size is much larger than competitors                                                          |
| circle: The position relationship of the entities in the attached drawing cannot draw a tangent circle using "tangent-tangent-perpendicular".                |
| lisp\vla-SetXRecordData: Error when setting xrecordtype to 340                                                                                               |
| shademode: visual styles missing "concepts" branch                                                                                                           |
| copy: The text position moves after copying the corner annotation in the drawing                                                                             |
| [Others] mtext: Emoji expressions entered in multi-line text are not displayed correctly                                                                     |
| Migrate: The migration of the attached 2022 custom migration file to the 2023 version failed, and caused the 2022 version configuration file to be corrupted |
| Plot: Print preview or print to paper cannot correctly display the dotted line effect according to the print style settings                                  |
| osnap:ZWCAD cannot snap to the corners of the drawing frame outside the clipping boundary of the external reference                                          |
| open_efficiency: "3D SP TMT.dwg" opens slowly                                                                                                                |
| copy\move\efficiency: "3D SP TMT.dwg" performs editing operations slowly                                                                                     |
| shademode_efficiency: "3D SP TMT.dwg" switching visual styles is inefficient                                                                                 |
| dimradius: Grip edit the radius annotation in the attached drawing, and the dimension line and annotation text will change automatically                     |
| DISPLAY: The display effect of 3D entities is poor, and the display effect of text on 3D entities is poor.                                                   |
| DIMALIGNED: The text spacing effect is incorrect after the dimension text is replaced                                                                        |
| dynamic block: When stretching a dynamic block, some graphics do not follow the stretching action                                                            |
| layout: Entities in the layout space of the attached drawing cannot be copied to the clipboard, deleted, etc.                                                |
| [Regression test] [Internal feedback] pdfimport: incorrect insertion order when inserting multiple pages                                                     |
| DISPLAY: Polylines in attached drawings disappear during zooming in                                                                                          |
| bedit: Dynamic blocks created by mesh entities do not support dynamic grip editing                                                                           |

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| shademode: Hope to improve the distinction of the "flat shading with border" border                                                                                                          |
| 3dface\explode: The exploded result of the surface in the attached drawing is incorrect                                                                                                      |
| open: Multiple drawings opened at the same time will not appear in the "Recent Files" list of the CAD taskbar.                                                                               |
| plot_ole: Set the system window background color to non-white. When printing with ole object (excel), the ole object displays abnormally                                                     |
| [Quality Improvement] Linetype: Discontinuous linetypes will regenerate after shrinking to a certain extent, and the scroll wheel will zoom in to observe, and the linetype degradation will |
| options: Hope to provide a medium icon option for the toolbar icon                                                                                                                           |
| ZWCAD Virtual JPEG Plotter print preview display error                                                                                                                                       |
| ZRX\AcDbText: justification and setJustification methods are invalid                                                                                                                         |
| lisp\vla-MoveToBottom: Unable to move object to the bottom of the drawing order                                                                                                              |
| Exportlayout: ZWCAD crashes when exporting the layout of the attached drawing to the model                                                                                                   |
| LISP: When converting the EasyBridge CAD toolbox to VLS format, some functions cannot be used and the error message is incorrect type - nil                                                  |
| lockup: Locking the entities in the attached drawings will cause displacement, and the proxy entities cannot be locked                                                                       |
| linetype: The line type of the attached drawing is not displayed correctly                                                                                                                   |
| array: Modifying the number of array items in attachment drawings does not work                                                                                                              |
| Pdfimport: Stamp content in PDF cannot be imported                                                                                                                                           |
| Display: When scaling drawings on a computer with a resolution of 3840*2160, the line color will change                                                                                      |
| CUI: I hope to be able to customize the interface settings in the right-click menu of the ribbon panel                                                                                       |
| DIMOVERRIDE: Setting the value of DIMBLK1 or DIMBLK2 to . was not recognized when performing dimoverride                                                                                     |
| CUI: After setting a new workspace as the current workspace, the content cannot be customized                                                                                                |
| 3D_scale: 3D contour line blocks are scaled with reference to the graphics and then displayed with broken lines                                                                              |
| ZRX: Property panel not refreshed after adding or removing OPM dynamic property and calling acedSSSetFirst                                                                                   |
| hatch: Attached drawing, fill any closed area, software hangs                                                                                                                                |
| LEADER\MTEXTED: Unable to create MText via Notepad when creating leader                                                                                                                      |
| xclip: Reference clipping in attachment drawings is not displayed correctly, and switching clipping boundaries does not take effect                                                          |

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| open:ZWCAD 2022 opens the attached drawing and prompts that the drawing cannot be repaired. I hope to repair the drawing so that it can be opened in 2022 |
| REFEDITNAME: Unable to correctly get the return value of refeditname after switching to a blank document                                                  |
| Image: When inserting the corresponding image, the cached image information that has been created will not be called                                      |
| ZRX: AcApDocument::setDocTitle() cannot set document title                                                                                                |
| zwplot: Intelligent batch printing will identify the graphics that are cropped but exceed the border in the crop reference as redundant frames            |
| ZRX_rxInit: Custom object registration failed when ACRX_DXF_DEFINE_MEMBERS is called in user macro                                                        |
| 3dorbit/orbitautotarget: When orbitautotarget=1, dynamic observation is not performed with the center of the 3D entity on the screen as the target point  |
| hatch: When entering block editing, the original fill object changes                                                                                      |
| SELECTSIMILAR: Selectsimilar is invalid in Japanese system for attachment drawings                                                                        |
| cursor: After closing the object layer/layer isolation command, the cursor becomes stuck when opening the layer properties manager.                       |
| Authorization: It is recommended to modify the authorization return icon                                                                                  |
| ZRX: acgsDisplayImage runs incorrectly, returns false                                                                                                     |
| Zrx: The display effect of custom 3D entities is poor, the colors are the same, and there is no three-dimensional effect                                  |
| Zrx: GsManager's getConfig method returns a null pointer, which is incompatible with competing products                                                   |
| Hatch: In the attached drawing, when editing the dynamic block stretch grip, the fill is displayed incorrectly                                            |
| array: fills a circular array with an angle of 360 degrees, and cannot increase the angle between its items                                               |
| boundary: When extracting the boundary of the same area multiple times, two polylines will be created at once                                             |
| Superhatch: Annotative block creation fills out of bounds                                                                                                 |
| lisp\vlis: When the source plug-in of ZWCAD is connected, the selection function in the door and window function is invalid                               |
| zwplot: After checking the "Split into separate dwg" option, some viewports of the layout space are lost after generating the drawing                     |
| RefEdit\Efficiency: Hope that the in-place editing of attachment drawing blocks or bedit will not be stuck                                                |
| ZRX: Compilation failed with Intel's new C++ compiler ICX                                                                                                 |
| Zrx\AcDbCurve: When the offset distance of getOffsetCurves interface is negative, the offset ellipse and spline curve effects are incorrect               |
| dimreassociate_osnap: The reassociate dimension command would go off track when snapping to intersections on certain splines                              |
| ZRX: Enable dynamic input, use acedGetReal to automatically fill in a value that changes as the mouse moves.                                              |

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| Tabledit\Field: Double-click the formula in the specified area of the attached drawing to edit it. After exiting, the field will be displayed as ####                             |
| Shademode: Lines drawn on the solid surface in shaded mode are not displayed                                                                                                      |
| Zrx: Using AcGiSubEntityTraits::setFill and AcGiGeometry::edge does not generate colored entities                                                                                 |
| Units: The value of the angle value picked up multiple times in the direction control is the cumulative value, not the actual value of each time                                  |
| copyclip/vports: When the graphics scale in the viewport is greatly different, the graphics in the viewport will not be displayed when copied and pasted into an office document. |
| ZWCAD/SPLINE: When the spline is zoomed in to a large size, the selection is severely lagging                                                                                     |
| 3dorbit: After activating constrained dynamic observation and panning the view, the blue ball is not displayed in the center of the drawing area                                  |
| open: The attached drawing is opened in ZWCAD, and some entity objects are missing                                                                                                |
| arcgis: The attached drawing will stagnate when reading coordinate data using ArcGIS                                                                                              |
| Hatch: There are multiple errors in the interaction of the "Angle" text box in the Gradient tab.                                                                                  |
| recover: The repair effect of attachment drawings is incorrect                                                                                                                    |
| expert\dimstyle: expert=5, there is still a relevant prompt when executing the -dimstyle command to save the existing dimension style name                                        |
| array: The array object in the attached drawing cannot use the array function normally                                                                                            |
| Text: The text content of the text object in the attached drawing is misaligned with the text edit box                                                                            |
| open_dxf: Open the attached dxf drawing, some block objects cannot be displayed                                                                                                   |
| osnap: After zooming in to a certain extent, the blank space in the middle of the dotted line cannot capture the intersection of the dotted line and the polar tracking line      |
| zwplot: when specifying the frame with tiles, the anonymous block frame range is incorrectly recognized                                                                           |
| insert: When a drawing contains blocks with the same name as this drawing, inserting this drawing into a new drawing multiple times will not work correctly                       |
| vports: The polygonal viewport of the attached drawing is displayed as a rectangular viewport                                                                                     |
| ZRX: Link errors will occur when using acedGetCurrentView during compilation, but it is fine if you use zcedGetCurrentView                                                        |
| array: The number of rows and columns of the array cannot be modified in the attached drawing, and the array grip graphic is not displayed by dragging it                         |
| pointcloud: Expect to improve the quality of point cloud display                                                                                                                  |
| Array: The display does not refresh after modifying array properties in the block editor                                                                                          |
| OSNAP: Arcs with a radius of tens of millions cannot capture the nearest point                                                                                                    |

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| Dimex\dimim: The dimension style in the attached drawing "smartplot" is exported and then imported into the new drawing. The unit format of the dimension style is changed from decimal to scientific |
| GRIPS: Some of the marked grips in the attached drawing "Grips cannot be moved" cannot be moved                                                                                                       |
| array: Attachment ring array cannot be copied                                                                                                                                                         |
| ZRX: Deleting an unstored entity obtained using acedTraceBoundary will crash                                                                                                                          |
| ZRX: Deleting an unstored entity obtained using AcDbRegion::createFromCurves will cause a crash                                                                                                       |
| dim: Open the attached drawing, the marked objects in the drawing are displayed in disorder                                                                                                           |
| ZRX: The length obtained by AcDb3dPolyline::length interface is always 0                                                                                                                              |
| Dynamic blocks: The attachment dynamic blocks cannot be adjusted after being copied in ZWCAD.                                                                                                         |
| ETRANSMIT: After electronic transfer of attached drawings, existing external references are not bound to the drawings                                                                                 |
| Plot: pdf printing and physical printing of attached drawings, some line types are displayed thicker than ACAD                                                                                        |
| etranmit: When the attached drawing is electronically transmitted by binding external reference, the reference file is lost.                                                                          |
| LINESMOOTHING/Hardware Acceleration: When hardware acceleration is turned on and smooth line display is checked, the preview and drawing colors are different when drawing a rectangle                |
| Lisp: Using the [Create Anonymous Block] function of Yanxiu Toolbox on the attached drawing does not work correctly                                                                                   |
| mtext: Inconsistent display and editing of colon position of multi-line text in attachment drawings                                                                                                   |
| After the dimension is moved using the MOVE command, the relative position of the dimension and the element is offset                                                                                 |
| ZRX: AcDbRay::setSecondPoint method execution result error                                                                                                                                            |
| Lisp: Using the [Check Annotation Coordinate Origin] function of Yanxiu Toolbox on the attached drawing does not work correctly                                                                       |
| Lisp: Calling ssget to select a column and passing the resulting selection set as a parameter to the ssnamex function gives the wrong result                                                          |
| [Regression test] [Key customers] selectioneffect: When selectioneffect=1, select the entity below the overlapping entity, and the display effect is still the entity above                           |
| osnap/Mesh: All capture modes of Mesh have no capture effect                                                                                                                                          |
| qdim: Use the copy command to copy the dimension. After modifying the dimension size of the source object before copying, the size of the copied graphic will change accordingly.                     |
| Sweep: The 3D solid shape generated by sweeping does not meet expectations                                                                                                                            |

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| dimension: open the attached drawing, mark and display the position, and restore the associated effect after entering the edit.                                             |
| open: The attached drawing is opened with acad and prompts that it needs to be repaired                                                                                     |
| xref: Attachment drawings do not display drawing references                                                                                                                 |
| Mtext: The defined width of the attachment text is incorrect                                                                                                                |
| [Regression test] select: Attached drawing: Shenyang Miaosheng workshop layout final version 20171130.dwg, frame selection preview, highlight effect is very laggy          |
| open/recover: When opening the attached drawing "2023-0204 Research Area Detail 0205.dwg", an error message is displayed and it cannot be opened directly                   |
| display: Hardware acceleration cannot support automatic switching between discrete graphics and integrated graphics                                                         |
| [Backbone test] display/imageclip: image inversion cropping boundaries are not displayed correctly under special cropping boundaries after hardware acceleration is enabled |
| DIMARC: Expect the arc length dimension to be displayed along the radius and perpendicular to the chord length in the same way                                              |
| hatchedit: When modifying the fill pattern, the preview is normal, but the save fails                                                                                       |
| MATCHPROP: Boundaries do not overlap when matching fills using the MA command                                                                                               |
| ZRX: The zcedLinetypeDialog function with a first parameter of ZcDbDatabase* is not implemented                                                                             |
| ai_selall: After selecting all entities in the drawing multiple times, the software memory usage increases significantly                                                    |
| Entities inside 3D solids with transparency are displayed incorrectly;                                                                                                      |
| DIMSTY: When modifying the font, arrow, etc. in the annotation style, there is no corresponding change in the preview image                                                 |
| OEM authorization: Install the mechanical version in a pure environment, and generate a ZWCAD folder under %appdata%                                                        |
| zoom/pan: Zoom/pan of drawings containing ole objects is very slow                                                                                                          |
| [Trunk Test] xref: After attaching an external reference, modifying the external reference drawing, minimizing ZWCAD, and waiting for a few minutes, the program becomes    |
| mleader: In the attached drawing "Sample.dxf", the underline of the leader annotation is not displayed                                                                      |
| Zwplot: When identifying the frame of the clipping block reference form in scattered line mode, the recognition result is incorrect                                         |
| Pasteclip: The copied table is missing the border                                                                                                                           |
| zoom/point: After changing the point style status of the drawing to none, zoom still cannot center the drawing                                                              |

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| [Quality Improvement] PAN: The raster image will shift slightly during the pan process, and the shift will disappear after the pan is completed. |
| quickcalc: QuickCalc cursor focus position is wrong                                                                                              |
| array: The array is not fully displayed due to the loss of row spacing                                                                           |
| open: After a polyline with elevation is converted to a 2D polyline, the z value cannot be displayed when hovering over the grip point           |
| [Beta feedback] bedit: After entering the block editor and exiting in version 2024, the settings on the left side of the toolbar will be changed |
| PDFATTACH: After attaching the attached PDF drawing, the zooming and panning efficiency is poor.                                                 |
| ZRX: Compile error after including some header files of associative arrays                                                                       |
| [Regression test] explode: Anonymous blocks in the attached drawing are not displayed after being exploded                                       |
| In a dual graphics card environment, Intel (R) UHD Graphics graphics card panning and zooming dynamic observation freezes                        |
| History: Right click on the CAD icon in the taskbar to not display the recently opened files                                                     |
| When printing large raster images, the image will not display if the paper or DPI exceeds a certain size.                                        |
| ZRX\ProductLocale: ProductLocale related interfaces are not implemented                                                                          |
| NLM: Network License Manager does not support the option to switch to other available configuration service names                                |
| install: ZWCAD Japanese installation interface display problem                                                                                   |
| The 3D model in the attached drawing cannot be subtracted                                                                                        |
| lisp\COM: Error when reading TextStyle of MleaderStyle                                                                                           |
| aliasedit: When editing a command alias, you want to be able to change the command corresponding to an existing alias                            |
| lisp\cmdecho: When executing a program command line, the error "Hatch boundary associativity has been deleted." appears.                         |
| Slide: The French agent wants to localize the text in the slide image of the installation process                                                |
| array: The platform destroyed the drawing, causing the created associative array to be modified                                                  |

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| incorrectly                                                                                                                                                             |
| block: The properties in the block cannot be modified                                                                                                                   |
| lisp\load: After the attachment vls file is loaded, a loading error will be displayed                                                                                   |
| [Merge test] display/hardware acceleration: The attached drawing has extra black lines after hardware acceleration is turned on                                         |
| EXPLODE: The path array of the two arrays was decomposed twice in the customer drawing, and the position of the graphics after decomposition was moved                  |
| Zrx\AcDbVisualStyle: Setting border and color properties in the visual style does not take effect                                                                       |
| Open: The attached drawing "1(1).DWG" opens without any response                                                                                                        |
| pdfimport: Importing attached PDF reference maps is very inefficient                                                                                                    |
| array: path array moves the grip points, the spacing will not change at any time                                                                                        |
| -plot: <Previous plot> page configuration not recognized when plotting via command line                                                                                 |
| array: The array display is abnormal, and the array display does not change after changing the number of columns                                                        |
| publish_Dwfx: ZWCAD publishes attachments as dwfx, the effect is not good, especially the curves                                                                        |
| linetype: When the number of segments of a straight line drawn with a custom line type exceeds 10,000, the line type will not be generated.                             |
| ZRX: After a dynamic block is converted to a variable block, the original block name cannot be read                                                                     |
| zrx\explode: After getting the exploded entity array, the pointer of the unstored entity in the delete array causes the program to crash                                |
| open/shademode: error in reading visual style when opening attached drawing                                                                                             |
| PDFAttach: The inserted attached PDF basemap has a lag in zooming and panning                                                                                           |
| ncopy: Use ncopy to copy objects from external references to the current drawing. The layer where the object is located will automatically be prefixed with xref.       |
| [Efficiency test] pan/hatch: The attached drawing "hatch_without annotation complex boundary pattern fill_2.6w.dwg" contains fill translation card                      |
| refedit: When editing a block object in place, the Save Reference Edit function now creates a new reference without overwriting the original reference.                 |
| export: Unable to export surface as sat file                                                                                                                            |
| wipeoutframe: The wipeoutframe system variable value changes after the attached drawing is saved by ZWCAD                                                               |
| bhatch: Using bhatch to fill an array does not work correctly                                                                                                           |
| options/pickauto/pickdrag: When the "Allow hold and drag for lasso selection" option is not checked, the selection will fail when you quickly select from right to left |
| Poor printing quality of pdf underlay                                                                                                                                   |
| spell: Hope to package Polish dictionary for spell command in Polish version                                                                                            |

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| dim: Pressing enter or spacebar when creating a dimension is not the default location for creation                                                               |
| attsync: Single-line attribute text cannot synchronize fields of multi-line attribute text                                                                       |
| dimstyle: No prompt when deleting the dimension style being used                                                                                                 |
| Lisp: After loading the attachment vls, the execution of commands such as cp\cb\cz\cla failed                                                                    |
| Plotstyle: Enabling grayscale in the plot style editor will affect color data modification                                                                       |
| Array: Drag the grip of an associative array in the attachment drawing or modify the number of rows and columns in the ribbon, and an error is displayed         |
| VBA: Using the Mirror method to mirror an attribute block, the resulting block reference position is incorrect                                                   |
| license: It is recommended to change the port used for online activation to 80 or 443 (http and https ports)                                                     |
| zwplot: When the attached drawing is split into separate DWG files, multiple viewports are lost after the file is generated                                      |
| Lisp/command: pline command ce branch input angle to draw polyline with incorrect effect                                                                         |
| subtract: When subtracting two 3D entities in the attached drawing, the message "Modeling operation error" appears.                                              |
| zwsizedrive: When you want the dimension line to follow the associated entity when you want the dimension drive to be driven                                     |
| ZRX: AcCmColor missing method setCOLORREF                                                                                                                        |
| fcmp: The comparison result of the attached drawing file is abnormal, and the same elements are displayed as different objects.                                  |
| [Beta internal test feedback] select: Cannot select dashed lines through the gaps between dashed lines                                                           |
| [User Communication Group Feedback] dimexo: The dimension line starting point is not displayed in the attached drawing                                           |
| array: Activate the "axis angle" grip in the associative array, enter the angle value in the dynamic input field and confirm, it does not take effect            |
| Image\Stretch: stretching an image with a cropped attachment gives incorrect results                                                                             |
| dyninput: Under 1e+9 coordinates, the coordinate display effect in dynamic input is inconsistent with ACAD                                                       |
| Plot: Print the attached drawing, all objects in the viewport are lost                                                                                           |
| [Update test] Attachment drawing: The text order has changed. The text position is inconsistent when the dwg enters the editing state and is displayed           |
| NLM: Improved translation accuracy of French version of NLM                                                                                                      |
| pdfimport: An extra polyline appears after the attached pdf file is imported                                                                                     |
| mtext: The attachment multi-line text has a tab stop, which causes a space to be displayed in front of the previous text, but acad does not display the tab stop |
| ZRX: acedGetPredefinedPatterns interface is not supported                                                                                                        |

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| license: Network floating authorization. The prompt that the authorization is not obtained is not obvious.                                   |
| mtext: During scaling, text position is messed up                                                                                            |
| Open\Array: The array in the attached drawing will prompt an associated network evaluation error in ZWCAD                                    |
| Dynamic block: When the base point of the linear parameter is the midpoint, the action used with it will result in an error.                 |
| osnap\perpendicular: When copying or moving an object, clicking the midpoint to move the object does not take effect when vertical snapping  |
| ZRX: AcDb3dSolid::getSubentColor interface is not implemented                                                                                |
| ZRX_acedSSGet: Selecting entities using :V:S mode failed when the second parameter passed in a point                                         |
| ZRX\AcDbSmartObjectPointer\close: Smart pointer calls close, causing object write open and upgrade open to fail                              |
| array/copy/move: copy or move the associative array in the attached drawing, the associative array entity display effect is incorrect        |
| ncopy: When a block is edited in place, you cannot use the ncopy command to copy objects outside the block and nest them inside the block.   |
| Plot: OLE objects in attached drawings are hidden and not displayed when printing                                                            |
| array: Associative arrays in attached drawings cannot be edited                                                                              |
| Superhatch: When inserting a raster image, it is not possible to manually specify the image scale in the drawing area                        |
| pline: Draw an arc with a specified center point without rubber line preview                                                                 |
| IMAGEATTACH: The attached image in the front/back/left/right view is not displayed                                                           |
| oleframe/grip: In the attached drawings, when the oleframe value is set to 1 or 2, the grip does not appear when the OLE object is selected  |
| ZRX: After calling CACUiColorComboBox::AddColorToMRU in the dialog initialization function, the software interface refreshes and turns white |
| ZRX: AcDbDatabase::setStyleSheet is not implemented                                                                                          |
| Lisp: Using Yanxiu to create anonymous blocks does not work correctly, blocks are not created, and some entities are missing                 |
| ZRX: Incorrect normal of arc created by AcDbCurve::setFromAcGeCurve                                                                          |
| Find: When searching for and replacing all block references with the same text in different styles, a duplicate pop-up window will appear    |
| open: In the open dialog box, the preview of the attached drawing in the file browser is displayed incorrectly                               |
| Hatch: A closed area created using xline or line. It cannot be filled if it is not displayed in full screen.                                 |
| Plot: The software freezes when printing drawings containing certain TTF fonts                                                               |
| Uninstall\COM: ZWCAD.Application object path in registry is not updated after uninstalling software                                          |
| 2.5k: At 2560*1440, 120% resolution and zoom, the ALIASEDIT dialog box is not fully displayed                                                |

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| array: The associative array in the attached drawing is not displayed correctly after copying                                                                                                                           |
| ZRX: After saving the drawing, the guid obtained by getVersionGuid does not change                                                                                                                                      |
| dimradius: The radius of the fillet is wrong after the dimension line is turned off                                                                                                                                     |
| open\Multileader: horizontally aligned merged multileaders in attached drawings are displayed overlapping                                                                                                               |
| ZRX: AcDbText has no getBoundingPoints method                                                                                                                                                                           |
| open: The attachment drawing contains nested external parameters and geographic location, and the opening efficiency is slow                                                                                            |
| pline: When the number of coordinate points reaches 130,000+, the efficiency of ZWCAD creating pline is low                                                                                                             |
| Command line: Fuzzy matching cannot be performed when entering commands in the command line of ZWCAD                                                                                                                    |
| array: The circular array in the attached drawing cannot be edited                                                                                                                                                      |
| Hatch: After the customer chooses not to display degraded images, the attached drawings will freeze when opened.                                                                                                        |
| dim: After double-clicking the annotation text, the field becomes invalid.                                                                                                                                              |
| ZRX\AcGiPolyline: setClosed and isClosed interfaces are missing                                                                                                                                                         |
| dimangular: add a prefix before the main unit and a tolerance after it, and the prefix position is always aligned to the bottom                                                                                         |
| array: Attachment drawing, the number of items in the associative array cannot be modified                                                                                                                              |
| array: The number of rows and columns in the array in the attached figure cannot be modified                                                                                                                            |
| 3Dsolid: The 3D entity of the attached drawing is not displayed when opened                                                                                                                                             |
| Zrx: Use AcEdInputPointMonitor::monitorInputPoint to add prompt information for entities. When the entity is close, the prompt information does not match                                                               |
| Osnapcoord: The setting is invalid, and the keyboard input coordinate value always replaces the object snap setting                                                                                                     |
| Plotstyle: The CTB file exported from ACAD cannot be edited in ZWCAD                                                                                                                                                    |
| xref/refedit: External reference, cannot be edited after entering in-place editing state                                                                                                                                |
| FILLET: When filleting a polyline with sub-segments, if the intersection of the extended lines of the two segments to be filleted is less than or equal to the midpoint of the other sub-segment, the fillet will fail. |

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| options/display: Fill color is not displayed correctly under white background                                                                                                     |
| cuiload: attachment mns loading failed                                                                                                                                            |
| [Regression test] open/image: When hardware acceleration is turned on, there are obvious white stitching gaps between raster images in the small viewport of the attached drawing |
| [Customer question] MTEXT: After turning multi-line text with spaces at the end into stacked text, the stacked text displayed in ZWCAD still retains the spaces                   |
| lisp\write-line: Cannot write long string to file at once                                                                                                                         |
| Open: The attachment contains a block reference drawing. "Drawing cannot be opened.dwg" opens without response                                                                    |
| open/save: The attached drawings "mapa3_04.07.23.dwg" and "ODN_SRK_IST.dwg" are slow to open and save in ZWCAD                                                                    |
| hatch: The software does not respond when filling certain positions in the attached drawings                                                                                      |
| ZRX: Calling acedSSGet to select an entity in subWorldDraw will cause a crash                                                                                                     |
| DRAWINGRECOVERY: The backup file in the repair manager cannot be automatically saved after opening it in zwcad                                                                    |
| The JIG operation in the attached drawing caused ZWCAD to freeze for about half a minute.                                                                                         |
| ZRX\AcEdInputPointFilter\turnOnForcedPick: After turning off snap, the point filter cannot get the selected entity                                                                |
| Plot: When the postscript level 1 driver sets the paper to 0 margins, the output still has blank margins                                                                          |
| Table\Pastespec: The Excel content is selectively pasted into ZWCAD as CAD primitives. The data in the formula is empty and is not recognized. The result is displayed as #####   |
| UNDO: In the classic interface, the undo drop-down menu can only select up to 21 items, and cannot select the last item.                                                          |
| Plot: The file size of the attached drawing printed using DWG to PDF is much larger than that of ACAD.                                                                            |
| ZRX\removePersistentReactor: When an entity is associated with multiple permanent reactors, an exception occurs when traversing and removing the reactor                          |
| PLOT: Transparency cannot be printed when "Background Printing" is checked                                                                                                        |
| explode: explode the blocks in the attached drawings, and some entities move                                                                                                      |
| Open/hatch: Open the attachment drawing "230728_LND02_KNSPT_PLN.dwg" created by AutoCAD, the hatch is displayed incorrectly, broken or the border is offset                       |
| ZWPLOT: When there are many frames and their sizes vary greatly in intelligent batch printing, the order of drawings in the same row and column is incorrectly recognized         |
| Open/Global Width/Block Scaling: A polyline with global width is within a block with block scaling set. The global width is not controlled by the block scaling.                  |

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| ZRX: ESC exit 3DORBIT command can not trigger AcEditorReactor::commandEnded                                                                                                                                  |
| LoadCtrls\kOnIdleLoad: Does not support the registry setting to load when the secondary development program is idle                                                                                          |
| pan\zoom: After setting the visual style of the attached drawing to Flat+Edges, the efficiency of zoom\pan is low                                                                                            |
| Point Cloud: After attaching the attached point cloud, the display effect does not meet expectations                                                                                                         |
| Toolpalettes: Fill pattern with background color lost its background color after dragging into tool palette                                                                                                  |
| hatch\palettes: Cannot modify fill background color in property panel                                                                                                                                        |
| plot\image: When printing attachments to PDF, images are blurred when previewing and printing                                                                                                                |
| zwplot: Specific physical printer uses intelligent batch printing PLT format drawings as mirror images                                                                                                       |
| copyclip\mtext: When the ">" and "<" symbols in multi-line text are replaced with Arial font and then pasted into Excel, the text in the same line is displayed in the font before replacement and overlaps  |
| zwplot: When printing a PLT file using a physical printer, the line color of the ZWCAD print is lighter than that of the ACAD print                                                                          |
| open: Open the attached drawing "10060163 BST_recover.dwg" and the entity is not displayed                                                                                                                   |
| SAVEAS\BLOCK: After saving the attached drawing (EAA12-S31-001 지하1층구조평면도(84AB).dwg) as a drawing in dwg2013 or lower format, some blocks are not displayed when opened                                       |
| ZRX: sectionVisualStyleDictionaryId and detailVisualStyleDictionaryId not implemented                                                                                                                        |
| table: When the text editing toolbar is turned on, double-clicking the table in the attached drawing will not exit the editing process by pressing enter. After editing in the toolbar, the platform crashes |
| pdfimport: After importing the attached pdf, the decimal point becomes a dash                                                                                                                                |
| attdef: When a multi-line attribute definition contains spaces before and after the underlined text, an error is displayed when saving to DWG2013 and below formats                                          |
| ZRX: Custom entity subWblockClone function derived from AcDbBlockReference is not called after creating block                                                                                                |
| [Regression test] hatch/shademode: Some entity fills in the attached drawings are not displayed in 3D mode                                                                                                   |
| lisp\setvar\dimblk: failed to set German dimension arrow names                                                                                                                                               |
| plot\preview: The drawing frame of the attached drawing is lost when scaling during print preview                                                                                                            |
| ZRX\AcDbObject: setBinaryData and getBinaryData functions are not implemented                                                                                                                                |
| dim/copy: The numbers in the linear/aligned annotations in the attached drawing are copied to multiple lines of text, with additional text information                                                       |
| [Beta internal test feedback] dimcontinue: Use continuous annotation in the attached drawings. Click on the left to start from the right.                                                                    |

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| mtext/style: The font with shx file version 1.2 is placed in the font directory, but ZWCAD cannot recognize it when loading it.                                                                       |
| ZRX: AcGiWorldGeometry::polyline function with AcGiPolyline as parameter is not implemented                                                                                                           |
| Open: Opening drawings with dynamic blocks in the attachment is inefficient                                                                                                                           |
| audit/regen/linetype: Custom linetypes display abnormally after audit and regen                                                                                                                       |
| block: When a variable block created by ZWCAD is associated with certain specific layers, an error will occur when opening it through ACAD; the variable block cannot be correctly recognized in ACAD |
| plot: PDF printing, print preview, and results for Arabic text are all displayed incorrectly.                                                                                                         |
| ZRX: AcGiGeometry::edge and AcGiSubEntityTraits::setFill are not implemented, resulting in the filling of the custom entity not being displayed                                                       |
| Annotative: Annotative scale is lost after annotative dimension in a drawing is copied to another drawing file                                                                                        |
| Region: The display effect of the face region with opposite normal is inconsistent when it is illuminated in volume shading mode                                                                      |
| arraypath: Arc path array, modifying the item spacing by gripping the points results in an error                                                                                                      |
| imageattach/tfw: insert an image with tfw position information, the effect is wrong when the ANGBASE value is not 0                                                                                   |
| -hatchedit: In 3D space, the hatch boundary movement is regenerated in the attached drawings                                                                                                          |
| explode: After selecting all attachment drawings, EXPLODE, the software does not respond                                                                                                              |
| Plot_Fill_Blank: Fill pattern blanking print to PDF result error                                                                                                                                      |
| zwplot: When zwplot batch intelligently prints a single drawing, the full drawing scale is displayed incorrectly                                                                                      |
| wblock: The specified line in the attachment (평입단(변경).dwg) was incorrectly identified as a proxy object, resulting in the failure to complete the write block operation                               |
| PDFATTACH: PDF is inserted repeatedly in the attachment drawing, and the scale is incorrect                                                                                                           |
| select: When selecting an object, enter c (intersection) or w (selection). After selecting the first point, quickly move the mouse to automatically enter the second point.                           |
| Lisp: Loading lisp, Stretch filling failed                                                                                                                                                            |
| Print: The result of printing Arabic text is wrong and inconsistent with the print preview                                                                                                            |
| laydel\undo: Open the attachment file, execute the LAYDEL command, execute the N branch, delete the [text] layer and execute undo. The software does not respond.                                     |
| open/display: When the attached drawing is opened in ZWCAD, the entities in the layout space viewport are not displayed                                                                               |
| The drawing is opened in CAD2021, and copying the drawing causes the software to freeze                                                                                                               |

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| Aliasedit: The dialog box of the Aliasedit command editing is not fully displayed                                                                                                                                      |
| [Regression test] ifcimport: After importing an ifc file, ifc objects are not displayed in the current visible range when the selected entity is rotated.                                                              |
| pdfattach: After attaching the attachment PDF, the background shows extra lines                                                                                                                                        |
| open: The attached drawing "Verification.dwg" prompts that it needs to be repaired when opened, and can only be opened through the recover command                                                                     |
| Hatch: In ZYXCAD, when filling the blank space of the attached drawing "해치기술지원문의.dwg", the hatch cannot recognize the boundary and the hatch range will exceed the boundary                                            |
| ZRX: Custom object registration failed after using ZCRX_DXF_DEFINE_MEMBERS in user macros causing zrx loading failure                                                                                                  |
| Zoom/pan: The zoom efficiency of the attached drawing "1.dwg" has decreased compared to 2024                                                                                                                           |
| block/copyclip: The effect is incorrect after copying and pasting the dynamic block with base point in the attached drawing                                                                                            |
| etransmit: The default folder save path in the transfer settings is not the currently opened drawing file path                                                                                                         |
| Hatch\Ribbon interface fill ratio modification method adds ".5" to be recognized as 0.5                                                                                                                                |
| copyclip: When the system variable WMFBKGND is turned on, the object has no background color and still has a transparent display effect when copying and pasting                                                       |
| text: Thai language is displayed in a shifted position during zooming                                                                                                                                                  |
| osnap: Turn off dynamic input, turn on orthogonal mode, check Enable object snap tracking, enter the straight line length data to draw a perpendicular line to the existing straight line, and the direction is wrong. |
| wmf: When exploding the attached wmf file, the global width of the polyline changes and the display effect is incorrect.                                                                                               |
| Zoom: For more complex drawings, execute zoom-o (object) and then execute p branch (previous), zooming is slow                                                                                                         |
| wmfin: When inserting a wmf file, the text height does not change with the viewport size                                                                                                                               |
| ZRX\Brep\AcBrMesh2dElement2dTraverser: Calling the setMesh interface returns eNotImplementedYet                                                                                                                        |
| Move: Move the rectangular array in the attachment drawing, the software does not respond                                                                                                                              |
| 3dforbit/orbitautotarget: When "Orbit Auto Target" is off, selecting objects to enter Free Orbit should show all objects                                                                                               |
| 3dsolid: 3D solids in attached drawings are not displayed                                                                                                                                                              |
| Flatten: The spline in the attached drawing has too many vertices after being converted to a polyline through flatten compared to ACAD                                                                                 |
| Display: The display effect of arc lines is not as good as Acad. I hope to further optimize the display effect of smooth lines.                                                                                        |

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| Thumbnails: Drawings created by ZWCAD do not display thumbnails in Windows File Explorer                                                                                                                                                |
| ZRX: Nested send commands in program not executed in order                                                                                                                                                                              |
| -block: Create a block in command line mode. When inserting, the block unit is not set to the graphic unit of the current drawing.                                                                                                      |
| When exiting the block editor, the variable block toolbar disappears and other toolbars cannot be reset                                                                                                                                 |
| trim: After reducing the view size, the trimming entities under dynamic precision are not trimmed accurately                                                                                                                            |
| open/recover: The attached drawing "1.dwg" cannot be opened directly, nor can it be opened by recovering it.                                                                                                                            |
| hatch: The drawing order of the attachment drawings created by ACAD filled in ZWCAD is inconsistent with that displayed in AutoCAD                                                                                                      |
| dxf/leader: The leader line of the attached dxf drawing is displayed incorrectly                                                                                                                                                        |
| LEADER/dimscale: The dimscale system variable value should not affect the text height of the quick leader                                                                                                                               |
| ZRX\acedGrRead: Clicking to close the program falls into an infinite loop, and the command execution cannot be ended by right-clicking                                                                                                  |
| open/copyclip: Opening the attached drawing "581-A204299.dwg" does not copy and clean objects properly                                                                                                                                  |
| massprop: Optimize the text layout of Massprop results displayed in the command line                                                                                                                                                    |
| zrx: The include header file path in rxcopyonwriteobject.h under arxport is wrong                                                                                                                                                       |
| COPY/copyclip: After copying a proxy object, the proxy object cannot be copied successfully or the position is offset                                                                                                                   |
| ExportLayout: When the annotation point is within the viewport range, the annotation content outside the viewport range is exported incorrectly                                                                                         |
| ATTSYNC/Block: After adding a new attribute to a variable block containing attributes, only the selected attribute block is updated after executing the attsync command, and attribute blocks of the same type are not updated together |
| dim/display: Dimension lines are not displayed after adjusting the dimension position in the attached drawing                                                                                                                           |
| Mleader: After editing the multi-leader text in the attached drawing, it is impossible to exit, and the cross cursor is abnormal                                                                                                        |
| scr\linetype: Executing the linetype command in the scr file did not exit, resulting in incorrect script execution results                                                                                                              |
| Wblock: When executing the write block command, the dynamic attribute block in the current selection set was not correctly identified                                                                                                   |
| vba\com: Unable to use isDynamicBlock and GetDynamicBlockProperties to determine the variable block and obtain the related variable block properties                                                                                    |
| solprof: Attachment 3D solid solprof creates contour plot with missing lines and generates extra objects                                                                                                                                |

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| xclip/block: When opening the attached drawing directly, the clipping block graphics are not displayed correctly, but they are displayed normally after deleting the clipping frame           |
| -Plot: The plot style sheet name cannot be correctly recognized without a suffix                                                                                                              |
| CAL: Hope to support uppercase input                                                                                                                                                          |
| layerstate/plot: Saving changes to an existing layer style will cause all layers to lose the stb plot style                                                                                   |
| Xref:: Select another path in the external reference save path of the xref panel, and the prompt for batch replacement of paths will not pop up                                               |
| stretch/mark: After stretching the graphics in the attachment drawing, the dimension lines are abnormally displayed                                                                           |
| qsave: The attached drawing is saved. The command line displays qsave, then closed and reopened, but the drawing is not saved.                                                                |
| Join: The merging of three lines connected end to end on different planes failed                                                                                                              |
| [Trunk test] laytrans/layer: Create a new layer for mapping and save it as a dwg drawing. The mapped layer name in the drawing is empty                                                       |
| AIDIMFLIPARROW: The attached drawing flips the arrow for diameter annotation, the effect is incorrect                                                                                         |
| open: The platform will not crash when opening the attached drawing. Tianzheng V7 will crash when opening it.                                                                                 |
| zrx/AcDbViewportTableRecord::setVisualStyle This interface cannot correctly switch the Visual Style                                                                                           |
| PLOT: After installing the accessory print driver, the software crashes when clicking [Apply to Layout] in the print dialog box                                                               |
| xref: After the external reference drawing is modified and updated, a strong reminder to reload the external reference will pop up when editing the external reference in the current drawing |
| dim/dim1: When using the dim command to create a basic type dimension, text with spaces cannot be entered as dimension text                                                                   |
| QUICKCALC: After performing the same operation on non-left-aligned text, the resulting text position does not match the expected position                                                     |
| ZRX: acedGetDpiScalingValue interface is not implemented                                                                                                                                      |
| Lisp: return value of (chr 0) causes result of strcat to be truncated                                                                                                                         |
| zrx\brep\AcGeNurbSurface::getControlPoints: failed to obtain vertex data of the surface in the attached drawing                                                                               |
| areatable: The default area unit does not match the drawing unit set in units                                                                                                                 |
| Hatch: The attached drawing "hatch2024.dwg" failed to create a hatch using the hatch function                                                                                                 |
| 4K\select: At 4K resolution, the cursor movement speed slows down significantly when selecting objects with the cursor, and the lag is obvious.                                               |
| French translation correction: Revcloud                                                                                                                                                       |
| ZRX\pedit: The join branch of the pedit command cannot use the last selection set to connect lines and polylines                                                                              |
| block/REFEDIT: When editing a block in REFEDIT, using Ctrl + Node to copy a line segment and then saving the block, the copied line segment was not saved in the block                        |

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| [User feedback] bedit/linetype/Tian Zheng Interpreter: Load the Tian Zheng Interpreter, modify the global line type ratio of the attached drawing "20-2F-DT04(12-18) Modeling Node.dwg" to 1, edit the block reference and exit, and the global line type ratio will be restored to the initial value |
| wblock: When writing a block, if the name contains the symbol "." and the .dwg suffix is not filled in, it will be recognized as an abnormal format and an error will be reported, and the block cannot be created correctly                                                                          |
| open: ZWCAD gets stuck when opening an attachment drawing containing anonymous blocks                                                                                                                                                                                                                 |
| refedit: After editing the external parameters of the attached drawing and clicking Save, the software does not respond                                                                                                                                                                               |
| License: The solution link for the English version of ZWCAD is in Chinese                                                                                                                                                                                                                             |
| mtext: Arabic text display position                                                                                                                                                                                                                                                                   |
| ZRX: acdbGetViewportVisualStyle returns null, acdbSetViewportVisualStyle is not implemented                                                                                                                                                                                                           |
| xattach: Attach the attachment drawing and bind it. The object is lost when the drawing is saved and then opened.                                                                                                                                                                                     |
| [Trunk test] layerstate/transparency: Modify the transparency of the layer. Execute the layerstate command to create a new layer state. The transparency is not remembered.                                                                                                                           |
| Delete some objects in the array drawing with AutoCAD, then open it with ZWCAD and explode it to restore the deleted objects                                                                                                                                                                          |
| [Acceptance test] pdfimport: When importing a multi-page PDF, the spacing between pages is incorrect when "Convert units" is checked and "Specify on screen" is not checked                                                                                                                           |
| In a custom coordinate system, polylines cannot be interrupted                                                                                                                                                                                                                                        |
| Spline: The degree in the spline property should be translated as "degree" instead of "order"                                                                                                                                                                                                         |
| display/hatch: The hatch border of the attached drawing will show extra black lines when zooming                                                                                                                                                                                                      |
| pointcloud: The attached point cloud drawing is opened inefficiently in ZWCAD, and some points are not fully displayed.                                                                                                                                                                               |
| CHAMFER: Two polylines with the same global width lost their global width properties after chamfering                                                                                                                                                                                                 |
| hatch/ribbon: loading custom hatch files when opening the ribbon panel takes a long time, and creating hatches is very slow                                                                                                                                                                           |
| hatch/area: Total area of attached drawing hatch calculated incorrectly                                                                                                                                                                                                                               |
| plot: shx text with background mask does not show up in shaded plot preview                                                                                                                                                                                                                           |
| save/saveas: After saving or saving the attached drawing, reopen the file and the sick frame disappears                                                                                                                                                                                               |
| translation/KOR: Korean text editor "Paragraph" translation revision                                                                                                                                                                                                                                  |
| translation/kor: Korean spell dialog translation corrections                                                                                                                                                                                                                                          |
| translation/kor: Korean field interface translation correction                                                                                                                                                                                                                                        |
| plot: high dpi printing pdf, file size increases significantly                                                                                                                                                                                                                                        |
| plot: drawings with a lot of technic.ttf text are too large when exported as pdf files                                                                                                                                                                                                                |

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| mtext: Arabic text in attachments is displayed incorrectly                                                                                                                                  |
| ZYXCAD: Document properties are not displayed as zyx when exporting PDF                                                                                                                     |
| ZYXCAD: Translation correction of display styles                                                                                                                                            |
| ZYXCAD: Solid Editing branch command translation correction                                                                                                                                 |
| zrx\getGeomExtents: The error in filling in the outsourcing range in the attachment block reference leads to incorrect block reference range                                                |
| list: After performing the [lofting] operation on two sections, the Z coordinate of the lofted entity is inconsistent with the coordinate of the original interface                         |
| open: When opening the attached drawing, the software CPU and memory usage soared, and the computer crashed                                                                                 |
| dimarc: Arc length dimension with empty line break "<>\X{}" text alternative displayed incorrectly                                                                                          |
| Help\ZRXSDK: There is a typo in the ZRX porting documentation                                                                                                                               |
| Mtext: The line breaks of multi-line text in ZWCAD are incorrect                                                                                                                            |
| open: Open the attached drawing, and the Tianzheng annotations in it will not be displayed                                                                                                  |
| osnap: ZWCAD becomes unresponsive when object snapping multiple overlapping ellipses in the attached drawing                                                                                |
| hatch: When creating a hatch after zooming in on the attached drawing, the hatch boundary definition error appears in the layout viewport                                                   |
| help/smartsel: Help button on "Select Similar Settings" screen has no help documentation                                                                                                    |
| translation/ZYXCAD/KOR: Translation corrections in the Line Width Editor interface                                                                                                          |
| hardwareacceleration/plot: When hardware acceleration is turned off in the attached drawing, some text cannot be displayed normally                                                         |
| dynamicblock/: After ZWCAD converts a dynamic block into a variable block, it cannot be modified and edited in ACAD                                                                         |
| publish: When publishing to a single-page PDF, replace the hyphen "-" before model and layout in the file name with a space                                                                 |
| mtext: When the text content exceeds the text editing box, the line wrapping of multi-line text containing some Chinese symbols such as [v][x][※] is incorrect                              |
| After executing the XCLIP command, execute the branch command D, ctrl+z to withdraw, and the block will not be displayed                                                                    |
| Help: The help document should not recommend users to use the OdaMfcApp tool                                                                                                                |
| cmddia: I hope that cmddia settings can take effect on the in-place editor of the annotation text                                                                                           |
| license: Hope to add a button in the online activation interface to jump to the offline activation interface                                                                                |
| zwplot: Hope to optimize the printing size ratio                                                                                                                                            |
| Tian Zheng Interpreter/LINETYPE: After modifying the global scale factor in layout space, switching to model space and then switching back to layout space, the global scale factor changes |

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| LAYISO\LAYUNISO: After executing the LAYISO\LAYUNISO command twice and manually unlocking all layers in the Layer Properties Manager, some objects are still grayed out  |
| mtext: ZWCAD is incompatible with the universal Wubi input method                                                                                                        |
| -wblock: command should not be able to select block references on locked layers when executed                                                                            |
| mtext\rotate\block: In the attached drawing, the rotated block reference annotation multi-line text is inconsistent with the model space in the layout display direction |
| overkill: Executing the overkill command in the attached drawing will delete the leader                                                                                  |
| open: Open the attached drawing, the opening progress bar is stuck and the software is unresponsive                                                                      |
| mtext: The text color of the attached drawing multi-line text changes after entering and exiting the editing process                                                     |
| Zrx\AcPIPlotEngine: The PDF file printed by calling DWG To PDF.pc5 has no layer information                                                                              |
| license: Scan code to activate the license type is not fully displayed                                                                                                   |
| osnap/spline: The intersection of the spline and the straight line cannot be captured in the attached drawing                                                            |
| plot_mtext: After the attached drawing is printed as PDF, the spacing between the multi-line text is shortened                                                           |
| qselect: When quickly selecting the "SEQEND" object in the drawing, the software crashed.                                                                                |
| open: When opening the attached drawing, it is displayed as white, but it is displayed normally in ACAD                                                                  |
| open: The attached drawing cannot be opened, and the progress bar is stuck at 99% and becomes unresponsive                                                               |
| Plot/plt: HP 750 C3196A printer prints plt file as mirror image in customer environment                                                                                  |
| Plot: Point and line type objects cannot print line width correctly using dwg to pdf printer                                                                             |
| start: The customer has dual graphics cards and cannot start the software normally after CAD installation is complete!                                                   |
| French translation correction: The TCASE command interface in the French version was translated incorrectly                                                              |
| Polish translation correction: Perspective view translation error                                                                                                        |
| CUI: Start ZWCAD when WSAUTOSAVE is 1, delete %temp% file and close ZWCAD, the icon resources in local cuix are cleared                                                  |
| Region: Unable to create a region with the "Solid" type selected                                                                                                         |
| dynblock: After the attachment dynamic block stretches the dynamic grip, the array direction is incorrect                                                                |
| open/wipeout: The area in the attached drawing covers the graphics, causing the drawing to be unresponsive when opened                                                   |
| application: The mechanical version is pinned to the taskbar, and the icon becomes the platform icon                                                                     |

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| Join: Select multiple lines in the attached drawing and cannot merge them                                                                                                   |
| dgnimport: After the attached DGN file is imported into ZWCAD, some line segments are lost and not displayed                                                                |
| field/attdef: The field formula relationship in the attachment attribute block is lost, causing the field to display as ##### after double-clicking to edit.                |
| SYSVDLG: "Use Unicod UTF-8" is checked in "Regional Settings", and SYSVDLG crashes when executed in ZWCAD                                                                   |
| xref/reload: Reloading a block reference will make unloaded nested references visible                                                                                       |
| LAYFRZ\LAYLCK: Activate a locked viewport in layout space, LAYFRZ cannot freeze the layer of the selected object                                                            |
| mtext: Attachment drawing text display position                                                                                                                             |
| ZRX: AcDbSubDMesh::setVertexTextureArray interface is not implemented                                                                                                       |
| Plot/hatch: Fill borders are wrong when the attached gradient pattern is printed as PDF                                                                                     |
| save/isavepercent: Save the drawing without doing anything, and the drawing size will increase                                                                              |
| After performing in-place editing and saving of the external reference of REFEDIT/Attachment drawings, it prompts that it cannot be saved and cannot be Refclosed correctly |
| open_hatch: Fill color in attachments is not displayed correctly                                                                                                            |
| mtext: When the character height is 10 times or more than the defined width, the text is displayed without wrapping                                                         |
| Explode\Mtext: When exploding multiple lines of text in the attached drawing, a new text style will be added, causing the system to freeze.                                 |
| Display/layout: Graphics outside the polygon viewport in the attached drawing layout are not displayed                                                                      |
| bedit: After the attachment drawing is modified with the block editor, saving is invalid                                                                                    |
| copyclip: In the customer environment, copying is stuck, causing the software to crash when pasting                                                                         |
| display/hatch: The hatch pattern displays uneven brightness after smooth lines are turned on                                                                                |
| OPEN: The attached drawing "План -1 этажа автостоянки _Вариант1.dwg" has no response when opening                                                                           |
| open/array: Some array elements in the attached drawings are sometimes not displayed when opened, and sometimes displayed when opened                                       |
| amep: Double-click the attached drawing to open it, the software will freeze                                                                                                |
| LAYUNISO\LAYERBROWSER\LAYWALK: After unisolating and browsing a layer, the layer walk function becomes invalid                                                              |
| Hatch/Pasteblock: The hatch in the attached drawing is not displayed correctly after being pasted as a block                                                                |

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| NLM: After setting the timeout on the interface, opt is displayed as garbled characters                                                                                           |
| massprop: Envelope calculation of attached 3D objects is wrong                                                                                                                    |
| com/Lisp/undo: Use vlax-put-property to modify the name of the copied block and then undo, the new block disappears                                                               |
| Object Snap: When using Tab to switch snap points, the center of the circle cannot be snapped                                                                                     |
| dview: In the integrated graphics environment, the execution of dview commands in attached drawings is severely laggy                                                             |
| hatch: When the pattern name in the pat file ends with characters such as "-", "+", "~", etc., the pattern loading in the hatch dialog box is abnormal                            |
| Plot: Times New Roman font is italicized, but the result is incorrect when printed to PDF                                                                                         |
| pointcloud/KOR: Changed the description of pointcloud from "점자료" to "포인트클라우드"                                                                                                     |
| mleader: The leader segments of multileaders in attached drawings are displayed incorrectly                                                                                       |
| RefEdit: Create a new block definition after in-place editing of attachment blocks                                                                                                |
| battman: Cannot set dynamic block attributes to be visible via BATTMAN                                                                                                            |
| plot/fillmode: When fillmode is 0, the geometry line width polyline is printed to PDF with incorrect results                                                                      |
| hatch: SOLID hatch cannot be displayed in Greek Windows                                                                                                                           |
| lispdebugger: Error parsing the attached dcl file in debug mode                                                                                                                   |
| Korean translation: Please correct the following errors.                                                                                                                          |
| Lisp: acet-ss-drag-move missing                                                                                                                                                   |
| [Trunk test] union/intersect: The attachment drawings cannot be intersected and joined.                                                                                           |
| Plot/pagesetup: "Print paper space last" option does not take effect in drawing display                                                                                           |
| quickproperties\mtext: After exiting the editing of multi-line text, the quick properties palette does not close automatically                                                    |
| Plot/dwf: Printing drawings as dwf files with very large coordinates displays errors in Autodesk Design Review                                                                    |
| ZRX: Hope the platform provides a method to use the GrData data of the proxy entity when drawing custom entities                                                                  |
| ZVALTOO: Attachment: When executing ZVALTOO, the multileader block disappears                                                                                                     |
| TRIM:EXTRIM mode cannot trim objects outside the view range                                                                                                                       |
| block: The blocks in the attachment are displayed as anonymous blocks when opened in the competitor, which is inconsistent with ZWCAD. Blocks cannot be edited in the competitor. |
| array: When copying or moving an array in an attachment drawing, it cannot be moved to the specified position                                                                     |
| array: After creating an array for the attachment content, editing cannot take effect                                                                                             |

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| dim: Line breaks in annotation text cannot be copied and pasted                                                                                                             |
| export/sat: Some entities are lost after the attached drawing is exported to sat format                                                                                     |
| Text: When editing text in the attached drawing, the text moves                                                                                                             |
| Hatch: The hatch of the attachment drawing can be displayed in the Chinese version, but not in the English/Korean version.                                                  |
| HATCH/KOR: Fill pattern color selection by layer was not executed correctly. (Only occurs in Korean version)                                                                |
| 3D: 3D entities created in ACAD are not displayed in ZWCAD                                                                                                                  |
| array/copyclip/pasteblock: copied array and pasted as a block, the array grip in the block editor is abnormal                                                               |
| ui: The icons of [overlay reference] and [attachment reference] need to be distinguished.                                                                                   |
| ZRX\IOPMPropertyExpander: When there is only one ElementGroup, the software crashes when switching elements                                                                 |
| ZRX\AcDb3dSolid::createSweptSolid: Failed to create a 3D solid using a 3D polyline as the sweep path.                                                                       |
| [Internal feedback] [Stability issue tracking] Select: When loop selection is enabled, the program crashes when repeatedly selecting and deselecting objects                |
| [Open and Save] open: The attached drawing "master-4.5W-2.dxf" cannot be opened, and it prompts to press Enter to continue                                                  |
| ZRX: Custom entities drawn using mesh or shell interfaces have incorrect highlighting                                                                                       |
| insert\attsync: When inserting a redefinition of a dynamic block, an error is displayed, and attsync is unable to synchronize the attributes of the redefined dynamic block |
| field/dynblock: After dragging the attachment dynamic property block from the tool palette or design center, the fields in the properties are displayed incorrectly         |
| ZRX\IOPMPropertyExpander: When the put function is not implemented, this item will not be grayed out by default                                                             |
| -mtext: When the width is set to 0, spaces in the input string will be recognized as line breaks.                                                                           |
| Saveall: After all attached drawings are saved in other dxf formats, the annotations are lost when they are opened                                                          |
| open: When opening the attached drawing with ZWCAD, it prompts that it cannot be repaired                                                                                   |
| [Trunk test] BREAK\BREAKATPOINT: Closed self-intersecting polylines, breaking at the intersection, the effect is incorrect                                                  |
| open/hatch: No response when opening attached DWG drawing                                                                                                                   |
| RENDER: After clicking Render in ZWCAD, the command line shows that rendering has started but no window pops up                                                             |
| Delphi\Com: Using Document.StartUndoMark\EndUndoMark to mark multiple times and then executing the U command will undo multiple operations at once                          |
| Spline\Osnap: The spline position of the attached drawing is not accurate and the offset is large                                                                           |

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| ZRX\AcEdJig: AcDbDimension::setDimensionText cannot set the content of the dynamic dimension box                                                                                              |
| ZRX\AcPIPlotReactor: Temporary entities added to reactor, zoomed in preview, temporary entities disappeared                                                                                   |
| Open: Some custom entities created by ACADM are not displayed after opening the drawing                                                                                                       |
| boundary: It is difficult to create a boundary for the attachment drawing area                                                                                                                |
| style: trium.ttf font is not recognized after installation                                                                                                                                    |
| move\erase\qsave: After executing move\erase\qsave on the attached drawing, the software crashes and a prompt box "ZWCAD cannot continue" pops up                                             |
| eattedit: I hope that in the EATTEDIT window, I can save the modified value and close the dialog window by pressing Ctrl+Enter                                                                |
| Dynamic input: Dynamic input lacks mouse hover effects                                                                                                                                        |
| HATCH: Some hatch patterns are not displayed in the attachment drawing layout                                                                                                                 |
| ARRAY: The display position of array objects in ZWCAD and AutoCAD is different                                                                                                                |
| mirror: The dimension line of the attached drawing is shifted after the mirror is marked                                                                                                      |
| [Beta internal test feedback] rectang: After drawing a tilted rectangle, drawing another rectangle is still tilted                                                                            |
| hatch: After opening the attached drawing, the default fill ratio of the new drawing becomes 1:100                                                                                            |
| copy: The array copy result in the attached drawing is wrong                                                                                                                                  |
| open: dxf file content cannot be displayed normally                                                                                                                                           |
| hatch: The hatch in welding symbols created by ACAD Mechanical 2022 is displayed incorrectly in ZWCAD                                                                                         |
| refedit: When the external parameters of a drawing are modified in another host drawing, there should be a prompt that the external parameters have been modified when the drawing is opened. |
| dynblock/hatch: attachment dynamic block padding missing after rotation                                                                                                                       |
| dynblock/field: The field attributes of a variable block created by ZWCAD are not displayed correctly when opened in acad                                                                     |
| torient: Unable to select attribute block to adjust attribute text angle                                                                                                                      |
| Refedit: In Refedit mode, you can offset the graphics outside the block.                                                                                                                      |
| Toolbar: When ZWCAD is in full screen, the flyout toolbar is docked in the second column on the right and the expansion direction is wrong                                                    |

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| mtext: Cannot exit after entering text editing in attachment drawings                                                                                    |
| Lisp\entmakex\zcdbEntMakeX: After creating an insert type entity, creating a LINE type entity will fail                                                  |
| [Beta internal test feedback] xref\xloadctl: xloadctl=1, open the external reference first and then open the main drawing, it prompts that it is damaged |
| ZRX\shell\setFillType: AcGiGeometry::shell fills incorrectly after drawing a closed area                                                                 |
| [Beta internal test feedback] open_dxf: Attachment drawings cannot be opened on 2024SP1.3                                                                |
| install: In the installer properties, many information items are missing on the detailed information page                                                |
| Mtext: The Thai text in the attached drawing (OD-2310,2311 (INS)rtjpequd DIM-Update 93364000.dwg) is not displayed correctly                             |
| ZRX\OPM: propput function should not accept decimal input when the parameter type is short                                                               |
| plot/hatch: Linear gradient hatch pattern has incorrect hatch pattern borders when printed to PDF                                                        |
| Plot: Certain versions of Source Han Sans fonts freeze or crash when printed to PDF                                                                      |
| ZRX\AcDbGripData::setGripOpStatFunc: The grip state callback function of the custom entity receives the wrong grip state                                 |
| NLM: French version of the package translation error                                                                                                     |
| mslide: The brush color used for white entities when generating slides is too dark                                                                       |
| ZRX\AcDbBlockTableRecord\setName: ErrorStatus returned when setting a duplicate block name                                                               |
| ZRX: AcApDocument::GetIDispatch returns NULL, unable to get the COM pointer of the document                                                              |
| copyclip: When a CAD object is copied to an EXCEL document, the annotation arrows and some lines are not displayed correctly.                            |
| [Beta feedback] attdef\block: Creating a nested field attribute definition block with a formula does not display properly                                |
| shademode/hatch: In hatch mode, changing the drawing order of hatch in the attached drawing does not take effect                                         |
| Point Cloud: Attached point cloud file, point cloud cannot be displayed                                                                                  |
| zoom: When hardware acceleration is turned on, the circle zoom regeneration process in the attached drawing has a sudden change                          |
| Korean translation: Please correct the translation errors shown in the attachment                                                                        |
| Copyclip\Pasteclip: After adding Bitch Toolbox 6.0 to the startup group, ZWCAD is prone to crash when copying CAD graphics to Word                       |
| Open/xref: Crash when opening an attached drawing with external references by dragging it into the software                                              |
| PDFimport: After the attached PDF is imported into ZWCAD, the display is abnormal, the text size becomes larger and the attribute is filled              |

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| copyclip: When copying a block reference in an attached drawing, the software becomes unresponsive                                                                                         |
| Plotlinetype: After applying linetype in plot stylesheet, linetype scale is too large when printing to PDF                                                                                 |
| .net: Application.GetLicenseSerial cannot obtain the ID of some dongles                                                                                                                    |
| translation/FRA : French translation correction                                                                                                                                            |
| Step import: Importing STEP format is slower than ACAD                                                                                                                                     |
| table: After entering "COPPER" in the table, "COPPER" disappears and the table is locked and cannot be edited                                                                              |
| options: After adjusting the "Uniform Background" color, the "Drawing Background" color will change                                                                                        |
| Bedit: After editing the dynamic block of the attachment, make any changes and save and exit, the block moves                                                                              |
| ZRX\acedArxLoad: After adding the search path with acedSetEnv(_T("ACAD")), acedArxLoad still cannot be used to successfully load the dependent zrx                                         |
| XCLIPFRAME: xclipframe cannot control xref clipping boundary display                                                                                                                       |
| vba: Getting a specific object in a specific drawing causes the platform to crash                                                                                                          |
| After NLM configures the mechanical authorization number, ZWCAD obtains the mechanical authorization through floating, and the startup of ZWCAD is still a trial                           |
| ZRX: When drawing a straight line through worldDraw's geometry().polyline, if one of the endpoints is (nan, nan, nan), the drawing effect is wrong after turning off hardware acceleration |
| SOLID/SNAP: Unable to snap points on entities in attached drawings, command line prompts abnormality, and software does not respond                                                        |
| Dimstyle: Fractional height scale in text cannot be adjusted when the unit format of the primary unit is set to Architectural                                                              |
| Educational version\Service: The link of the educational version of ZWCAD intelligent customer service needs to be changed                                                                 |
| XREF: After inserting an external reference with a 1000x scale into the attached drawing, extra rays appear when scaling                                                                   |
| open: Open the attached drawing, the text in the attribute block is misplaced                                                                                                              |
| .NET: The result of the 3D solid extruded by the Solid3d.Extrude method in the attached program is incorrect                                                                               |
| Plot/physical printer/gradient fill: Many Fuji printer models cannot print gradient fill patterns                                                                                          |
| help: The content of the help document [Restore and repair graphic files] is inconsistent                                                                                                  |
| Dimension: The annotations in the drawing are misplaced                                                                                                                                    |
| ZRX: After the custom entity is resurrected, the extension protocol AcDbProxyEntityData does not take effect, and subTransformBy is not executed correctly                                 |
| VBA\REGEN: After setting the highlight effect of the drawing object through secondary development, it cannot be canceled by regeneration                                                   |

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| Point cloud transparency: The attached point cloud drawing has an incorrect display effect after adjusting the transparency                                                                           |
| ZRX: Exception occurred in AcGeLineSeg2d::mirror method                                                                                                                                               |
| .Net\Xline.Intersectwith: The intersection result of construction line and other entities is incorrect                                                                                                |
| ZRX: The gripAppData passed into the subMoveGripPoints function of the AcDbMultiModesGripPE::kImmediate type grip point is a null pointer                                                             |
| ZRX\AcDbGripData::setHotGripDimensionFunc: HotGripDimensionFunc callback is not triggered when multiple grips are selected                                                                            |
| Mleader: The color of some texts of multileader is displayed incorrectly                                                                                                                              |
| ZRX\subMoveGripPointsAt: The cursor point z value and the grip point z value are inconsistent when dragging a custom entity grip point                                                                |
| ZRX: AcDbMultiModesGripPE::reset not triggered when canceling or ending grip drag                                                                                                                     |
| open/dwf: ZWCAD2024 prompts an error when opening a dwf file and cannot open it                                                                                                                       |
| refedit/block: After editing the external reference, the variable block on the original drawing will become a normal block                                                                            |
| Plot: When printing with ZWCAD PDF (High Quality Print), the gradient fill graphics are broken                                                                                                        |
| open: Custom line types containing text need to be regenerated after opening the drawing to display correctly                                                                                         |
| Options: When the "Display text as a box when it is indistinguishable" option is checked, the option is not remembered                                                                                |
| llicense: Upgraded number. When the machine where the parent number is located is activated at the same time, it prompts that the activation failed, but the actual upgrade is successful.            |
| ARRAY: Associative array sick drawings fixed by script on 2024 version, can't edit number of columns                                                                                                  |
| toolpalettes: put the block containing the variable block into the "Tool Palette" and set it to explode. After calling this, the variable block attributes are lost                                   |
| mtext: Edit multi-line text, use shift+enter to wrap lines between lines, adjust the column effect, save the drawing in a format below dwg2018, and then reopen the drawing, the line breaks are lost |
| xref: An external reference in the attached drawing cannot be read                                                                                                                                    |
| dynblock: The array effect is incorrect after the attachment dynamic block stretches the dynamic grip                                                                                                 |
| dynblock/hatch: hatch pattern would misidentify hatch area as dynamic block stretched                                                                                                                 |
| pointcloudmanager: The point cloud manager can only be opened through the button in the toolbar, but cannot be closed                                                                                 |
| pedit\osnap: After converting a polyline to a spline using pedit, the endpoints cannot be snapped                                                                                                     |

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| shademode: The default visual style when opening a dwt drawing is flat shading, and the printout is blurry                                                                            |
| 3D: 3D entities cannot be displayed in customer drawings                                                                                                                              |
| VBA: After adding the printer style sheet search path, the style sheet obtained by ThisDrawing.ActiveLayout.GetPlotStyleTableNames is empty                                           |
| Plot/fcmp: When comparing attached drawings, the software may become unresponsive or crash when printing the comparison results.                                                      |
| refedit/align: In in-place editing, select objects outside the block for alignment, and cannot filter objects outside the block                                                       |
| Hatch: The hatch of the block in the attached drawing is displayed abnormally in ZWCAD                                                                                                |
| WBLOCK: After customizing UCS and then selecting the base point to export an external block, the block did not save the UCS data correctly.                                           |
| SCR: Running CAD scripts is inefficient and generates huge temporary files on the C drive                                                                                             |
| mtedit: Open the attached drawing, double-click to edit the text in the drawing                                                                                                       |
| lispdebugger: The attached program has a stack exception when debugging vl-sort                                                                                                       |
| During the in-place editing of external parameters, the reference drawing needs to be write-protected when it is opened                                                               |
| attout: When the attribute export is saved directly in csv format, two attributes with the same name will be saved as one column of data, and will be saved as two columns in txt;    |
| attsync: When executing the ATTSYNC command to synchronize attributes in the attachment drawing, the result is incorrect                                                              |
| plot: ttf solid fonts incorrectly apply the fill style in the plot stylesheet                                                                                                         |
| layuniso/LAYER: After the layer is closed and the "Cancel layer isolation command" is executed, the objects on the layer will not be displayed after the closed layer is opened again |
| lisp\entmod: Cannot change the value of a block attribute whose value is a field to a text                                                                                            |
| field: Unable to directly select objects in the layout viewport to create fields                                                                                                      |
| hatch/ribbon: Removed the hatch border via the ribbon tab, the updated hatch ObjId is different from the original                                                                     |
| Adcenter: The insert and redefine functions in Adcenter are incorrect in non-Simplified Chinese versions                                                                              |
| Battman: After adding attribute text during block editing, synchronization after selecting the block in Battman does not take effect                                                  |
| LAYMCH: does not support selecting an object before performing an operation                                                                                                           |
| ZRX\AcGeVector2d::angleTo : The angle between the zero vector and any vector is non-zero                                                                                              |
| open: The z coordinate of the block attributes is wrong after opening the attached R12 dxf file                                                                                       |
| pallette: After the panel is resized, the adjustment status cannot be remembered after restarting ZWCAD                                                                               |
| VBA\COM: AddCustomObject method reports an error when adding a custom entity                                                                                                          |

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| open: ZWCAD2024sp version crashes or does not respond when opening the attached drawing KWD-2060F (KWD5192-20240416).dwg                                                                                                                            |
| Plot: Gradient fill pattern lost when printing attachments using PDF Creator                                                                                                                                                                        |
| CUI\Macro: Commands with a "+" at the end are not recognized correctly when pressing the space key to repeat.                                                                                                                                       |
| HATCH/KOR: Fill color not inherited when inheriting features (only occurs in Korean version)                                                                                                                                                        |
| NLM: Translation error in the prompt content in the English version                                                                                                                                                                                 |
| ZRX\AcDbBlockReference::setNormal: If the normal vector is set to (0,0,0) when creating a block reference, the block reference will display incorrectly.                                                                                            |
| explode: After exploding the vent proxy object entity drawn by Hongye HVAC, the graphic will become a point                                                                                                                                         |
| hatch: Attachment drawing creation fill range incorrect                                                                                                                                                                                             |
| zwplot/plot: When the attached drawings are in PDF format, the reference base map is not displayed in some drawing frames                                                                                                                           |
| ZRX: acutAngle parameter precision is too low, affecting the correctness of the result                                                                                                                                                              |
| zrx: When the tolerance is too small, AcGeCircArc2d::intersectWith will result in an error in the intersection of a specific AcGeLineSeg2d                                                                                                          |
| Open: When opening the attached drawing, a warning box "Error in associated network evaluation: Unable to parse the object or exceeded the MaxArray value limit" pops up. It cannot be closed and the software process can only be forced to close. |
| lisp: Executing VL-BB-SET in the attached program causes the program to interrupt                                                                                                                                                                   |
| Startup: After the startup value is 1 and the software is started, there are extra spaces and IDs in the recently opened list                                                                                                                       |
| osnap: After checking the "tangent point" snap, the spline's tangent point extension line cannot be snapped                                                                                                                                         |
| open: When opening the attached dwf drawing, the text width factor is incorrectly applied, resulting in text offset                                                                                                                                 |
| olelinks/pastespec/insertobj: paste the ole link obtained by pastespec, update the ole data source and save the drawing, the changed data source will not take effect                                                                               |
| xref: Selecting a nested external reference in the Reference Manager panel does not highlight it                                                                                                                                                    |
| Hatch\Grip Editing: Drag the specified grip point in the attached drawing, and the fill deformation is abnormal                                                                                                                                     |
| hatch\hpmxlines: The hpmxlines variable is set to 1e5, and the object is lost after exploding the hatch pattern                                                                                                                                     |

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| update: Update package rollback mechanism needs to be optimized                                                                                                    |
| FILLET: Incorrect results when rounding lines and splines in attached drawings                                                                                     |
| plot/wipeout: When the area coverage graphics intersect themselves, the printing drawing mask fails on some printer models                                         |
| Text: The text position of the attached drawing is incorrect when it is opened                                                                                     |
| plot/hatch: The software does not respond when printing or previewing the filled part of the attached drawing                                                      |
| lisp: mapcar function's first argument should receive the symbol of the function to be executed instead of the function value                                      |
| pasteclip/block: Blocks in attached drawings cannot be copied and pasted to other drawings                                                                         |
| NLM: The German version has translation errors                                                                                                                     |
| CUI\MACRO\DIESEL: Modifying ORTHOMODE variable in menu macro does not take effect                                                                                  |
| zwplot: When selecting multiple documents to print, the button for batch selection of drawings is not grayed out                                                   |
| publish/plot: The print range in the attached drawing layout was not saved properly, resulting in a blank PDF when published                                       |
| open/dxf: After opening the attached dxf drawing, some graphics are not displayed                                                                                  |
| display/VIEWPORT: The display range in the attached drawing layout viewport is abnormally blocked by the triangular area                                           |
| copyclip/excel: After copying the contents of the attached drawing to excel, extra padding is displayed                                                            |
| delobj: enrich the control functions of this system variable                                                                                                       |
| hatch\block\explode: The dot fill pattern in the block cannot be displayed normally. When the block is exploded by EXPLODE, the dot fill can be displayed normally |
| Plot: When the attached file is printed to PDF using Russian characters in Arial font, there are extra spaces                                                      |
| bedit: crash when modifying attachment block annotation                                                                                                            |
| field: The diesel expression in the attachment field cannot display the value correctly                                                                            |

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| NLM: When the client machine name is Korean and the machine name is added to the server floating whitelist, floating authorization is still not possible                                  |
| OOPS/select: Objects restored by OOPS cannot be selected by the command to select the previous object                                                                                     |
| hatch: Open the attached drawing and display the extra hatch                                                                                                                              |
| refclose: The external reference of the attached drawing cannot be saved and exited correctly after multiple in-place editing                                                             |
| open: Open the attached drawing, the block reference drawing is not displayed                                                                                                             |
| Plot: When zwcad prints drawings to paper, the text is displayed thicker than autocad                                                                                                     |
| translation/JPN: Japanese version dimstyle-new dialog translation correction                                                                                                              |
| Plot: When using the attached Source Hanshin font style, printing PDF is unresponsive                                                                                                     |
| plot/spline: spline curves are more degraded when printed to pdf                                                                                                                          |
| Plot: When printing attached drawings, the font tilt direction is inconsistent with the preview                                                                                           |
| start\open: Different users on the same server will open the same drawing                                                                                                                 |
| .Net\DrawableOverrule\MdiActiveDocument: The software freezes when getting the currently active document in the redraw rule                                                               |
| CUI\MACRO: When executing the insert command in a menu macro, if you close the pop-up dialog box and click the drawing area, the command line outputs garbled characters or even crashes. |
| Archive: Electronic transfer is too slow for drawing set files and multi-layer nested reference files                                                                                     |
| XREF/refedit: Attachment drawing inserted as xref shows extra objects on exit                                                                                                             |
| xref: Binding failed after attaching attachment drawing, unclear reason                                                                                                                   |
| Hardware acceleration: When hardware acceleration is turned on, some arcs in the attached drawings are not displayed                                                                      |
| dim: The precision of angle annotation and dimension annotation cannot be changed at the same time                                                                                        |
| open: Directly open the attachment block and refer to the drawing, and the display is abnormal. After recovering, it can be displayed normally.                                           |
| zwplot: When the printer selection is ZWCAD PDF, multi-page output cannot be selected.                                                                                                    |
| zwplot: Intelligent batch printing frame recognition error                                                                                                                                |
| ZRX: AcDbOle2Frame::setOleClientItem inserts OLE objects incorrectly                                                                                                                      |

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| qselect: Quickly select a large number of fills, the software memory usage soars                                                                             |
| hatch: dragging the fill border causes the border to stagger                                                                                                 |
| mtext: The input and editing of multi-line text in the attached drawings in the English and Korean versions of zwcad2024 is not smooth and there is a freeze |
| laycur: Unable to modify the Tianzheng cloud line and arrow lead objects to the current layer through the laycur command                                     |
| zwplot: Cannot recognize text in attached drawings when adding figure name variable                                                                          |
| Plot/hatch: When printing the gradient fill of the attached drawing to PDF, the fill boundary is wrong                                                       |
| lisp\Com: After using vla-put-name to change the block reference name to *w, using vla-item cannot find the renamed block reference                          |
| PKPM: After starting PKPM Green Building and opening the historical model, ZWCAD crashes                                                                     |
| Hatch: The closed area with array objects is filled incorrectly after the view is reduced                                                                    |
| open: Find dialog in select file panel shows extra name text                                                                                                 |
| filedia/xattach: When you press ESC to cancel inserting external parameters, the FILEDIA variable automatically changes to 0                                 |
| Refedit: Cannot save and exit when editing external references in attachment drawings                                                                        |
| xref: The external reference object cannot be selected normally in the attached drawing                                                                      |
| Block: Block objects in the attachment are stuck when moving                                                                                                 |
| INTERFERE: Unable to select block for inspection                                                                                                             |
| Loft: Unable to create a loft by specifying the section in the drawing                                                                                       |
| Plot: The ole object in the attached drawing does not display when printed to PDF at 4800dpi                                                                 |
| Plot: The text direction is wrong when the attached drawing is printed horizontally to the raster image                                                      |
| Plot: The attached drawing is printed to PDF using dwg to pdf, and the file is damaged.                                                                      |
| Plot/hatch: DWG to PDF print attachment gradient fill pattern has extra black lines                                                                          |
| CLIP: After establishing and using a new coordinate system, use the clipping function to clip block objects, and some objects are not displayed              |
| Korean translation: The translation content in TABLESTYLE needs to be corrected                                                                              |

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| insert/dxf: program crashes when inserting attachment dxf drawing                                                                                                                   |
| ZRX\lockdocument: After locking a document using kWrite in a hook function or non-modal dialog box, redundant groupcommands will appear in the undo stack                           |
| attedit: attribute blocks in attachment drawings used nested fields, field associations were lost after refresh                                                                     |
| FILLET: Cannot round Pline polylines                                                                                                                                                |
| XREF: Attribute blocks on external references of attached drawings are not displayed                                                                                                |
| solidedit\shell: Unable to shell 3D entities in attachments                                                                                                                         |
| Open: After installing ZWCAD 2024 & ZWCAD 2025 on Win 7 Ultimate, the system text cannot be displayed normally when opening the drawing                                             |
| array: The number of rows and columns in the array property is not displayed correctly                                                                                              |
| SAVE/text: When saving the attached drawing in ZWCAD, it will crash immediately                                                                                                     |
| Plot: When using DWG TO PDF to print the static type OLE image in the attached drawing, it does not appear in the printed file                                                      |
| dimlinear/field: When using a field in Text override in a linear dimension, the field is displayed as #### after saving                                                             |
| PLOT: ZWCAD crashes when printing attached drawings                                                                                                                                 |
| OPEN/OPTIONS: After replacing the font with ttf, the attached drawing opens very slowly                                                                                             |
| dimstyle/dimangle: The dimension style setting "Text always stays between dimension lines" changes the dimension line position after entering the block edit of the angle dimension |
| dimension/ddedit: when editing dimension text that uses text substitution and line breaks "\X", the text substitution before "\X" is repeated                                       |
| COPYCLIP/PASTECLIP: Selecting and copying all objects in the attached drawing does not allow pasting into a new dwg file                                                            |
| TXALIGN: Error when using text alignment in attachment drawing                                                                                                                      |
| hatch: When hardware acceleration is turned on, the fill display is incorrect (becomes a triangle)                                                                                  |
| Plot: When switching plot styles, the check status of "Print object line width" is reset to the default check status                                                                |

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| open: The attached drawing cannot be opened                                                                                                                |
| linetype:ZWCADiso.lin needs to add DIVIDEX2 linetype to be compatible with user SCR files                                                                  |
| zwupdate: Mechanical online update should read the mechanical version number                                                                               |
| The attached 3D drawing is not displayed correctly in ZWCAD, and many messy lines appear.                                                                  |
| Plot: The hatch image of the attached drawing is missing in the PDF generated when printing on long paper                                                  |
| Lisp\vlx: The automatic annotation function of the "Feishi Automatic Annotation" plugin does not work                                                      |
| Plot/GDI: Extra overlapping text appears on the drawing when using a physical printer or Microsoft Print to Pdf                                            |
| Open: Unable to open the attached DXF file                                                                                                                 |
| Tianzheng Architecture\Block: The text position in the customer history drawing block is flipped                                                           |
| Block\Hatch: After stretching dynamic blocks/hatch, the hatch drawing order changes                                                                        |
| lisp\~refedit: When there are multiple nested sub-blocks in a block, the command defined using the attachment cannot select and edit the correct sub-block |
| sweep: The position of the 3D entity generated by the attached drawing is offset                                                                           |
| lisp\COM: Using SendCommand to send commands in the COM library called by invoke on win7 will cause the program to crash                                   |
| osnap: Mouse pointer freezes when snapping to block reference boundary                                                                                     |
| xref: Open the attached dwt, there are some redundant data link information in the reference manager                                                       |
| MAXACTVP: The default value of the MAXACTVP system variable in the Traditional Chinese version of CAD is 16                                                |
| dimordinate: The endpoints of the leader lines marked with coordinates in the attached drawings cannot be stretched and moved                              |
| stlout/export: After exporting the attached drawing to .stl format, there are no objects in the file                                                       |
| rename/xref: named objects in external references should not be shown in rename dialog                                                                     |
| copyclip: When copying the text of the attached drawing to Adobe Illustrator, the text content is displayed abnormally and is squeezed together            |
| Lisp: Text in DCL dialog box is displayed smaller under some screen parameters                                                                             |
| xref: After unloading, reloading or detaching an xref, the tree view of the xref panel will always refresh to a fully expanded state                       |
| xref/bind: Hopefully this will improve the efficiency of binding large external references (around 1GB)                                                    |
| .NET\await: Code interrupted after Task thread execution                                                                                                   |
| OVERKILL: When selecting all objects, overkill mistakenly deleted other line segments                                                                      |
| text: The text edited by different CAD software has different positions in the table between ZW24 and 25 versions                                          |

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| license: After the trial license scan code activation expires, scanning the code again to activate it will prompt that the same type of product has been activated                   |
| sweep: The attachment drawing flips after sweeping                                                                                                                                   |
| open/save: The attached drawing cannot be opened after being saved in any dxf format                                                                                                 |
| layoff: After executing the layoff command, the branch is changed to other options, and then restarting ZWCAD changes back to the default option                                     |
| NLM: The minimum timeout setting is 15 minutes. It is recommended to increase the corresponding prompt                                                                               |
| area: When the attached drawing is zoomed in to a local area for area measurement, the drawing area will automatically zoom to display all entities after specifying the first point |
| dynblock: The dynamic block of the attachment drawing does not display the visibility grip                                                                                           |
| save/open: After the attached drawing is saved in any dxf format, the text display error when opening the dxf file                                                                   |
| refedit/xref: When an external reference is modified, you can be prompted to reload it when you want to directly enter in-place editing                                              |
| TOLERANCE: When editing a geometric tolerance with a datum identifier set and no height set, the datum identifier was displayed in the wrong position                                |
| MLSTYLE_kor: The Korean version of the interface is not fully displayed                                                                                                              |
| Korean Translation: Please correct the Korean translation as shown in the attachment.                                                                                                |
| block/group: After creating a group in the block editor, exiting and re-entering the block editor fails                                                                              |
| loft: Unable to select helix as guide                                                                                                                                                |
| copy\paste\lisp: When copying and pasting a block reference with modified properties using vla-put-Value to another drawing, the block reference is displayed incorrectly            |
| open: Extra lines are displayed after the attached drawing is opened                                                                                                                 |
| ddatte: The dynamic attribute block in the attachment drawing displays incorrect attribute entry information                                                                         |
| wblock/insert: loads the variable block interpreter, acad does not display dynamic grips after inserting a variable block                                                            |
| table: Attached drawing, every time you edit the table, the text width setting will be changed                                                                                       |
| ZRX: acdbUpdateAllDimensions: interface not implemented                                                                                                                              |

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| ZRX\setCurrentLayout\deleteLayout: AcDbLayoutManager cannot operate the layout of the temporary database                                                                        |
| subtract: Unable to subtract entities from the difference set                                                                                                                   |
| ZRX: isDynamicBlock and getBlockProperties methods of class AcDbDynBlockReference are not valid for mutable blocks                                                              |
| XATTACH: After the attachment drawing is referenced, the nested external parameter cannot be read                                                                               |
| etransmit: The same reference is referenced twice, and the electron transfer binding reference cannot be bound at the same time                                                 |
| ATTIN: Import attribute values. Empty values will not overwrite the original data.                                                                                              |
| license: German version activation error message translation is incorrect                                                                                                       |
| ARRAY: Associative arrays of attachment drawings are not displayed                                                                                                              |
| open: Xref drawing fills displayed incorrectly                                                                                                                                  |
| dgnimport: After importing the DGN drawing in the attached drawing into ZWCAD, some objects are lost                                                                            |
| hatch/open: Open the attached drawing, the memory is full and the program is unresponsive                                                                                       |
| Help: The lisp development guide uses a non-existent interface vlax-get-available-p                                                                                             |
| ZRX_acedSSGet: Using X mode to select 3D entities by extended data filtering is very inefficient                                                                                |
| osnap: The attached drawing cannot capture the intersection of a straight line and an arc                                                                                       |
| ZRX\ssgetRemoveFilter: Unable to prevent entities from being removed from selection set                                                                                         |
| dimstyle: When the vertical position of the tolerance is middle or top, the line break "\X" before the dimension text will cause the text to disappear after double-clicking it |
| Refedit/ncopy: After entering in-place editing for multiple references after ncopy, the ncopy entities are not displayed correctly when opening the reference drawing           |
| ZYXCAD/KOR/Korean Translation: Please correct the translation issues according to the content in the text.                                                                      |
| Hatch: When you drag the grip of the fill pattern, the pattern will cover the line object below                                                                                 |
| license: French version License Manager button translation correction                                                                                                           |
| std/zrxload: When executing the command to load zrx on demand in the standard version, the command line prompt is incorrect                                                     |
| 【Customer feedback】 hatch: When filling the attached drawing "Roller end assembly (cross section line will get stuck).dwg", the program does not respond for a long time        |
| mslide: In a specific viewport, the sld file generated for the slides with multi-line text using otf fonts has no content                                                       |
| mirror/explode: After the domain is mirrored, the domain is exploded, and the normal Z axis of the circle is opposite to the domain source circle                               |
| mtext: Duplicate multiline text generated after deleting bullets or numbering                                                                                                   |
| Open/3D: Entity display is lost after opening attached drawing                                                                                                                  |

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| -XREF: The attachment drawing is very slow to bind, and the software appears to be in a suspended state                                                                             |
| SWEEP: Sweep the accessory object to create a bend                                                                                                                                  |
| pedit: Arcs become straight line segments after merging attached polylines.                                                                                                         |
| stretch: The annotation text in the attached drawing will move after stretching.                                                                                                    |
| mtext: Double-click the multi-line text, do not do anything, click "OK", and the text font will change                                                                              |
| Update: Mechanical 2025 online update failed                                                                                                                                        |
| open: Prints only the DWF drawing of the layout content. After opening the drawing, the model space content is displayed as empty by default.                                       |
| RESETBLOCK: After the attachment variable block is stretched and copied to a new drawing, the block is reset and the entity display order is wrong                                  |
| osnap: Attachment block, line drawing and capture endpoints, software abnormality, unable to continue drawing                                                                       |
| ribbon/linetype: The property bar of the Ribbon menu cannot correctly display the line type of non-current layer objects                                                            |
| NLM: Modify the error message when returning authorization                                                                                                                          |
| Exit: After closing ZWCAD with ADS Civil (Vietnam) plug-in, a pop-up window of ZWCAD crash appears on the computer interface                                                        |
| Overkill: After using the delete overline function on an object in a drawing, this function will become ineffective.                                                                |
| refedit: After an external reference drawing is referenced by two drawings, it can be edited in place at the same time without a locked prompt                                      |
| block: The attachment variable block is deformed after copying and pasting                                                                                                          |
| refedit: Undo attribute loss after in-place editing of nested attribute blocks                                                                                                      |
| DEU: Spelling error in the German version                                                                                                                                           |
| ZRX: kExternal mode appendLoop returns EINVAL without correctly generating padding                                                                                                  |
| hatch: When a fill object is selected, the fill origin setting option in the Ribbon drop-down menu lacks a quick drop-down option                                                   |
| hatchtoback/Deu: hatchtoback is misspelled in the German version                                                                                                                    |
| Hatch: The enlarged fill area does not exceed the view range, and the fill fails                                                                                                    |
| options: Toolbar position is not written to the exported configuration file (*.arg)                                                                                                 |
| hatch: Closed boundary, when ZWCAD fill tolerance value is $\geq 2$ , a pop-up window warning will still appear when filling                                                        |
| hatch: Drawings saved by zwcad are displayed abnormally in ACAD                                                                                                                     |
| DIMENSION: copy and move the annotation in the attachment figure, and the position of the annotation text changes                                                                   |
| plot/field: When using custom paper, the displayed drawing size field does not match the actual paper name                                                                          |
| [User Exchange Group Feedback] regen: After installing the EasyDraw plugin, after executing the source block mask (zzbb) command, the mobile entity cannot be refreshed immediately |

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| -linetype/linetype: L branch wildcard does not support batch loading of linetypes                                                                 |
| Hatch: In the attached drawing, the total area of hatching counted by HaochenCAD is inconsistent with the total area counted by ZWCAD             |
| 【Customer feedback】 plot: When printing the attached drawing, there are extra words in the print result                                           |
| COPY/HATCH: Copy the viewport, fill does not display                                                                                              |
| open/hatch: The memory is not full, and the drawing software freezes and becomes unresponsive when opening it                                     |
| bedit: Green graphics display is not good in block editing environment                                                                            |
| SUPERHATCH: YZ axis scale settings are greyed out when creating a block hatch                                                                     |
| list/csy/Translation: Translation errors in the Czech version                                                                                     |
| HATCH: Open the attached drawing, save it as AutoCAD R12 DXF version, and then open the DXF again, the fill display is abnormal                   |
| HATCH: Attachment drawing fill exceeds closed boundary                                                                                            |
| dyninput: After turning on dynamic input, movement commands are abnormally laggy                                                                  |
| Refedit: Block name not updating in Refedit toolbar                                                                                               |
| open: After the attached drawing is saved as DWG2007 version, it does not respond when opened                                                     |
| ZRX\acdbGetObjectMesh: acdbGetObjectMesh function is not supported                                                                                |
| open: When you right-click the ZWCAD icon in the taskbar to open a drawing, you cannot open a drawing with a space in the name                    |
| fillet/CSY: changed radius branch keyword of FILLET command to R in Czech version                                                                 |
| open: Open the attached drawing, the 3D object cannot be displayed correctly                                                                      |
| solidedit: Face offset branch, offset cannot be performed when the offset distance is greater than or equal to the arc radius                     |
| open/DWF: When a customer opens a DWF attachment using Zhongwang, the raster image takes more than ten minutes to display and the scale is wrong. |
| GRAPHICSCONFIG/TEXT: When hardware acceleration is turned on, the edges of the text on the fill appear rough                                      |
| options: Reference Manager does not highlight reference files after selecting a reference in Ming style                                           |
| offset/polyline: wrong offset result for polyline                                                                                                 |
| Hatch: The hatch pattern of the attached drawing is displayed incorrectly, and it still displays when the HPMAXLINES value is 100,000             |
| ETRANSMIT: No prompt on command line after electronic transfer completed                                                                          |
| refedit: In-place editing of xref files that refuse to write cannot be disabled                                                                   |
| ETRANSMIT/XCLIP: Cropping of attachment drawings after electronic transmission shows the cropped content reversed                                 |
| options/CSY: fix translation issues in Czech version                                                                                              |
| -purge: The attached drawing runs the command -purge very slowly                                                                                  |
| CSY/CUI/Translation: Translation errors in the Czech version                                                                                      |
| dynblock: The text change effect is incorrect when the attachment dynamic block stretches the dynamic grip point                                  |

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| flexiblock: After acad loads the variable block interpreter for a filled variable block, the stretch grip fill is not associated                                                                         |
| WBLOCK/dwgprops: Drawings generated after using WBLOCK lose drawing property information                                                                                                                 |
| xref/save: After uninstalling an external reference in an attached drawing, save it and then open the drawing, some external references become not found                                                 |
| dimlinear: When creating a dimension, select a specified text style. After double-clicking the dimension, the text toolbar character height is displayed incorrectly                                     |
| xref/xattach: After attaching the attachment drawing, it cannot be bound                                                                                                                                 |
| plot/block: Wrong line width of polylines in non-proportionally scaled block after printing to PDF                                                                                                       |
| RefEdit/XRef: Attachment Xref in-place edit copy text does not display                                                                                                                                   |
| HATCH: Failed to create fill in the fill area of the attachment                                                                                                                                          |
| install: I hope to replace the VSCode included in the ZWCAD installation package with the 64-bit version                                                                                                 |
| dynblock: The multi-leader change effect is incorrect after the attachment dynamic block grip is stretched                                                                                               |
| SELECT: Pressing SHIFT+Spacebar does not toggle selection between overlapping objects                                                                                                                    |
| PROPERTIES: The cumulative area calculation error in the properties panel and quick properties panel customization                                                                                       |
| SUPERHATCH: The fill ratio after block filling is reduced by 25 times compared to ACAD                                                                                                                   |
| plot_dwf: Unable to set custom properties for dwf printer                                                                                                                                                |
| license: The name displayed on the activation card in ZWCAD License Manager is not completely consistent with the software name corresponding to the actual activation number, which may cause confusion |
| ncopy: It is recommended to add the default copy content to the original coordinate process branch                                                                                                       |
| dyninput: The coordinate values of the dynamic input box are not fully displayed                                                                                                                         |
| NLM: After the server suite is installed, an error message appears and the program cannot be started.                                                                                                    |
| XREF: External references lost when opening files in original unzipped path                                                                                                                              |
| Update: Online update occasionally clears the InstallLocation in the registry, causing Tianzheng to fail to start                                                                                        |
| LAYERSTATE: Layer State Manager was very slow to respond in attached files                                                                                                                               |
| GRAPHICSCONFIG: Description missing in GPUUnsupportList.ini file                                                                                                                                         |
| Solidedit/F/O: When using the Offset Face command to offset the 3D solid face specified in the attached drawing, the program does not respond for a long time, and the command line reports an error     |
| Solidedit/F/O: When the concave offset distance is greater than the thickness, the offset result is abnormal                                                                                             |

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| Display/Layout: Layout space, external reference display shift                                                                                                                                                        |
| ZRX: acedSSGet's WP mode cannot select dynamic blocks within the polyline range in the attached drawing                                                                                                               |
| help: In the geometric tolerance help file, the names of straightness and cylindricity in the shape type are incorrect                                                                                                |
| HATCH: Area statistics for individual hatches were wrong                                                                                                                                                              |
| Display/Text: Text display missing in attachment drawings                                                                                                                                                             |
| menu: After loading the attached cuix file, restart the software interface to restore without memory                                                                                                                  |
| Loft: The result of lofting in the attached drawing should be a solid, but a surface is generated                                                                                                                     |
| License: Offline activation - soft encryption "Don't want to upload files? Scan the QR code with your phone" is recommended to be optimized to "Scan the QR code with your phone to activate"                         |
| fillet: The fillet result of the spline curve in the attached drawing is incorrect                                                                                                                                    |
| NLM: During the offline activation of the Network License Manager, the activation fails when the response file in the folder with the Chinese name is selected                                                        |
| ZRX: In some cases, calling the getpoint method in the MFC window will cause grid capture to fail                                                                                                                     |
| OSNAP: When you enable endpoint and tangent point snapping, the existing drawing will get stuck when drawing polylines and you cannot continue drawing                                                                |
| plot: Text prints blurry on Canon pro-561 printer                                                                                                                                                                     |
| STLOUT: Unable to export ASCII files in export function                                                                                                                                                               |
| Open Drawing/Xunxunbao: When opening a specific drawing in Xunxunbao, the software does not respond                                                                                                                   |
| HATCH: Wrong order of setting hatch pattern in layout space                                                                                                                                                           |
| copyclip: After the dynamic block is copied and pasted, the shape changes                                                                                                                                             |
| Open/Recover: The attached drawing cannot be opened or repaired                                                                                                                                                       |
| zwupdate: When updating online, after downloading the update package, click the "OK" button in the software closing reminder box to automatically close the software according to whether there are unsaved drawings. |
| Licensemanager: Add prompt when returning the license manager                                                                                                                                                         |
| Start: The location of the "File Association Warning" dialog box is not fixed                                                                                                                                         |
| Open: Unable to open the attached drawing                                                                                                                                                                             |
| PLOT: Printing with DWG to PDF.pc5, importing annotations in WPS/Adobe Acrobat, position deviation                                                                                                                    |
| [User Exchange Group Feedback] XCLIP\UCS: Clipping reference under UCS, the clipping result is                                                                                                                        |

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| incorrect                                                                                                                                                                                                    |
| Open: Polyline arrows are missing when opening attached drawings                                                                                                                                             |
| Plot/pmp: Paper filtering is incorrect when pmp files saved by a physical printer are read from another computer                                                                                             |
| EXPLODE: After decomposing the frame proxy object, some text displacement and text wrapping                                                                                                                  |
| table\datalink: The font of a table file created and edited in WPS changes after being imported using datalink                                                                                               |
| Help: Translate the Knowledge Document into Japanese                                                                                                                                                         |
| AIMLEADEREDITREMOVE: The multileader to be deleted is not highlighted, and there is no highlight effect when hovering                                                                                        |
| xref: No response when executing xref program after opening attached drawing                                                                                                                                 |
| ZVALTOO: When using the Z-axis zeroing function, the lead element is displaced                                                                                                                               |
| Mtext: Multiple lines of text in attachments are displayed overlapping, but open in ACAD normally                                                                                                            |
| Toolbars: After duplicating a toolbar in CUI and creating a copy, uncheck the source toolbar and only check the copy. After restarting the software, both the source toolbar and the copy will be displayed. |
| Design Center: The "Redefine Only" function of the Design Center block does not take effect                                                                                                                  |
| Close\SDI: When the system variable SDI=1, you can still close the current drawing                                                                                                                           |
| 【properties】 Numerical calculation in property column supports decimal division                                                                                                                              |
| CSY: Czech version_COPYCLIP command translation problem                                                                                                                                                      |
| CSY: Czech version_RAY command translation problem                                                                                                                                                           |
| CSY: Czech language version XL command translation problem                                                                                                                                                   |
| CSY: Czech language version of '_dist command translation problem                                                                                                                                            |
| tablestyle: tablestyle cannot be applied normally to tables imported using DATALINK                                                                                                                          |
| DEU: German translation of the "Open" button is incorrect                                                                                                                                                    |
| table: OLE table objects pasted in custom UCS coordinates will automatically align to WCS coordinates and cannot be displayed                                                                                |
| view: The view manager has no layout view                                                                                                                                                                    |
| ZRX: In zcedSSGet("F") mode, the results of filtering and selecting LINE, ARC, CIRCLE in the attachment drawing are incorrect                                                                                |
| eattedit: After changing the size of the enhanced attribute editing window, editing multiple lines of attributes, confirming and returning to the window, the window displays an error                       |
| insert: After inserting a dynamic attribute block with coordinate fields into the attachment drawing, the coordinate fields are not updated immediately                                                      |
| publish_dwf: ZWCAD publishes attachments as dwf, and the fill display effect is not good                                                                                                                     |
| xref: Unable to bind an external reference with missing nested references without prompting the reason                                                                                                       |
| hatch/block/move: Move the entity object in the attachment drawing, and the hatch pattern display will change                                                                                                |
| wblock: There is no history path record in the write block dialog box                                                                                                                                        |

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| osnap\hatch: Capture the hatch pattern in the attached drawing and move the feature points                                                                                                     |
| xattach: After arbitrarily setting the temporary external reference file search path, execute the xref command to insert the external reference, generating redundant tmp files and zw\$ files |
| lisp: Loading the attached zbbz.vls program, cannot mark continuously                                                                                                                          |
| Hatch: Created without ignoring block attributes on closed or frozen layers                                                                                                                    |
| toolpalette: Block reference inserted from tool palette has incorrect layer properties                                                                                                         |
| explode: Explode the block reference objects in the attached drawings, and some objects are lost                                                                                               |
| ZWPLOT/Field: Hope that smart printing can update the field containing "print date"                                                                                                            |
| block\Field: In the attachment drawing property block, the values of some fields are displayed incorrectly                                                                                     |
| SAVEAS: The attached drawing (2B.dxf) cannot be saved as a dwg drawing in ZWCAD                                                                                                                |
| pdfattach: When inserting a PDF basemap, it is not inserted according to the original size, but inserted according to the inch size                                                            |
| massprop: The results calculated by executing the massprop command in the attached drawing are incorrect                                                                                       |
| dwf: When opening the DWF drawing published by ACAD in the attachment, the text does not display                                                                                               |
| save: After the attached drawing is opened and saved in ZWCAD, the drawing size increases dramatically from the original 92MB to 200MB                                                         |
| Leader: The leader annotation box in the attached drawing is displayed incorrectly                                                                                                             |
| open_pface: When opening the attached drawing, the polyhedral mesh is not displayed correctly                                                                                                  |
| Ltscale: Reset ltscale in layout space, the line type scale of entity objects in model space in layout space is not updated                                                                    |
| linetype: The line type of the attached drawing is displayed incorrectly, and it will be displayed correctly after regen                                                                       |
| DYNBlock: Some dynamic blocks in the attached drawings cannot be selected, and the dynamic blocks are not displayed after zooming the view                                                     |
| zwplot: Using pdfFactory Pro printer to print intelligently takes too long, more than 350 seconds                                                                                              |
| DRAGGEOM: When dragging the attachment drawing to another location with the right mouse button, the cursor is offset/extra 2D polylines appear after copying/cannot be pasted as a block       |

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| copyclip\pasteclip\dim: The copy and paste operation of the annotation in the attached drawing does not work correctly                                                                                         |
| xref: After inserting an attachment drawing as an external reference, editing the reference and saving the changes did not work correctly                                                                      |
| wblock: After selecting an object, click the object selection control again, press Esc or click "Cancel" to exit the command, and the entity will still be highlighted                                         |
| hatch\dyninput: The preview effect of moving fill is obviously flickering                                                                                                                                      |
| cuiload/menuload: After repeatedly loading mnu or cuix files, the prompt box information is incorrect                                                                                                          |
| toolpalettes\attrib: Inserting a redefined attribute block from a tool palette, the popup dialog function disabled state is incorrect                                                                          |
| dwfplayers: When selecting two or more dwf base map objects at the same time and clicking the Edit Drawing button, the "Reference Base Map Layer" dialog box does not pop up                                   |
| pdfplayers: When selecting two or more PDF base map objects at the same time and clicking the Edit Drawing button, the "Reference Base Map Layer" dialog box does not pop up                                   |
| Plot_Spool: Cannot output plt files via Spool and Publish when the file name contains multilingual characters                                                                                                  |
| solidedit: When selecting the slope of a cone to perform an offset operation, the slope of the cone is not highlighted                                                                                         |
| ucs_dimedit: modify the tilt angle of the dimension in ucs, the tilt angle is incorrect (52 group code)                                                                                                        |
| plot\xclip\block\image\rotate: The image file is clipped after creating a block reference at a specified base point. The clipped block reference is rotated, and the print preview is not displayed correctly. |
| xclip\block\image\rotate: After specifying the base point of the image file to create a block reference and then clipping, the block reference after clipping is rotated and displayed incorrectly             |
| xref/refedit: After in-place editing of an xref, undo does not undo the operation correctly                                                                                                                    |
| Dynblock: Dragging a dynamic block alignment grip to another external reference for alignment does not work correctly                                                                                          |
| ZRX\acdbSetDbmod: After calling acdbSetDbmod on a non-current document, there is still a save prompt when closing the document                                                                                 |
| close: The attached drawing "C-2.01~2.04 Strip Waterscape Detail.dwg" cannot be closed                                                                                                                         |
| xref\ShowLayerUsage: The layer usage status of the xref in the layer manager is not displayed correctly                                                                                                        |
| revolve\solid: Cannot select solid to rotate                                                                                                                                                                   |
| field: The created field cannot be "edited" or "converted to text"                                                                                                                                             |
| insert: After selecting DWG to insert a block reference in exploded mode, no block definition is created in the current drawing                                                                                |
| newUI: When entering a command on the command line, the background color of the dynamically displayed command is incorrect                                                                                     |

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| dimdiameter\dimradius: After copying and pasting the dimension, the attribute of the dimension generated by pasting is still associated                                                    |
| plot\options: The "Use as default output device" function in the print settings has no effect                                                                                              |
| Xref\unload\reload: After unloading the parent Xref in three layers of nesting and reloading, some child Xrefs are not displayed                                                           |
| refedit\AnnotationScale: In reference edit, change annotation from No to Yes, save and re-enter reference edit, find annotation is not saved                                               |
| Annotative\adcenter: When selecting an annotative block through the Design Center and inserting it into the current drawing, the "annotativeness" of the block reference is lost           |
| AnnotationScale\bedit: In block editing mode, after switching annotation to yes, the display effect is wrong                                                                               |
| AnnotationScale_dimjogged: A jogged annotation with multiple scales and associativity displays incorrectly after editing the associated entity.                                            |
| AnnotationScale\dimradius: Radius annotation with multi-scale annotation and associativity displays incorrectly after editing the associated entity, switching the scale radius annotation |
| trim_pline: Press Enter to select all objects as trimming boundaries, select the corner points of the polyline for trimming, and there will be residue at the corner points.               |
| dynblock: array action direction incorrect                                                                                                                                                 |
| Plot: Windows 10 system, importing page settings from other drawings, the program crashes                                                                                                  |
| dynblock: After operating the linear parameter stretching action of the dynamic block in the attachment drawing, the effect of switching the query parameter item is incorrect             |
| dynblock: Dynamic block layer name in attachment is incorrect                                                                                                                              |
| toolbar: After setting the standard scale of the viewport through the property bar, the viewport toolbar displays the scale as a decimal value.                                            |
| dynblock\mleader: The linear stretch dynamic block created by the mleader entity has no stretching effect when dragging the grip point in zw2018                                           |
| Hatch: When the fill density is high, the software may become stuck and sometimes crash when the fill is selected and moved.                                                               |
| DXF R12\Open\Save: After saving the attached drawing "zcdbEntTest_ltr.dwg" as DXF R12 format, the gradient fill does not display when opened in ACAD                                       |
| lisp/getcorner: When waiting for the user to enter the coordinates of the second corner of the rectangle, the preview is not updated in time when moving the mouse                         |
| Dynamic Input: The font size of the dynamic input edit box is too small and the alignment is incorrect                                                                                     |
| Dimbaseline/dimangular: Selecting the extension line of an angular dimension as the baseline does not work correctly                                                                       |
| -block/hatch: incorrect effect after redefining a block                                                                                                                                    |
| Hatch/circle: Modify the circle's attribute value through the attribute bar and the fill pattern is not related                                                                            |
| mpedit: After executing the command, the command line does not give a prompt                                                                                                               |
| leader: leader with text annotation, mirrored and shifted                                                                                                                                  |

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| dyninput/arc: Open the dimension input, select the midpoint of the arc for editing, when the center and the midpoint of the arc are both outside the drawing area, the arc radius dimension value and the arc value will move to the edge of the drawing area, resulting in overlapping display |
| layer: The words cannot be displayed in real time when the mouse is placed on the layer state                                                                                                                                                                                                   |
| layer: When the number of filters is greater than the number of layers, there is no prompt and the layer manager displays abnormally                                                                                                                                                            |
| dim_wipeout: Cannot mark area coverage via the "Select Object" branch                                                                                                                                                                                                                           |
| Toolbar: Right click on the lower half of the layout panel to pop up the toolbar menu                                                                                                                                                                                                           |
| hatch: Moving a hatch pattern does not disassociate it from the hatch boundary                                                                                                                                                                                                                  |
| hatch\properties: When modifying the range of the associated hatch boundary through the property bar, the hatch pattern is not updated accordingly                                                                                                                                              |
| qselect: When the current selection set is not empty, execute the QSelect command, and "Apply to" is not set to "Entire Graphics"                                                                                                                                                               |
| mtext: Switching font style, text formatting and preview effects are incorrect                                                                                                                                                                                                                  |
| mline/trim/extend: The trimmed multiline cannot be extended                                                                                                                                                                                                                                     |
| open_shademode: The hidden branch effect of shademode in the attached drawing is inconsistent with ACAD                                                                                                                                                                                         |
| zoom: Modify the current view through the view drop-down box (or other non-panning and zooming methods). "zoom-p" cannot restore the view display.                                                                                                                                              |
| Refedit: When locking an object that is not in the working set, you cannot select the object to create a dimension in reference edit mode                                                                                                                                                       |
| block\dynblock: Redefine a dynamic block with a normal block, and the resulting block is still a dynamic block                                                                                                                                                                                  |
| open\save: The attached drawing "CREmail_Drawing_5631.dwg" is opened in zwcad2018 and the program crashes                                                                                                                                                                                       |
| break: After opening the capture setting panel during the break at point function, the break command is automatically executed@                                                                                                                                                                 |
| Plot: The output file is too large when printing images to dwf                                                                                                                                                                                                                                  |
| open: Open the attached drawing "MAYURESH PARK FINAL FINAL FINAL.dwg" and it prompts that the file is damaged.                                                                                                                                                                                  |
| StatusBar: Move the right side of the program main window out of the screen and then back into the screen, and the buttons on the right side of the status bar disappear                                                                                                                        |
| HATCH/blockbreak: When inserting a block containing a large number of pline entities in a blocked manner, an error prompt box appears                                                                                                                                                           |
| blockbreak: Insert a block as a mask, save the drawing as dxf format, reopen the drawing, and the association between the block and the area coverage is lost                                                                                                                                   |
| blockbreak: Insert a block containing a closed spline curve in a blocking manner. Check the alignment with the line direction. If the angle is too large, the block insertion effect will be incorrect.                                                                                         |
| publishsh raster/spline: spline objects cannot be displayed in print effects and print preview                                                                                                                                                                                                  |
| properties\Annotationscale: In the in-place editing state, the annotation scale value in the properties column of the object with annotation scale is incorrect                                                                                                                                 |
| blockbreak/spline: Inserting a smaller spline block in a blocking manner generates an incorrect wipeout effect                                                                                                                                                                                  |

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| smartvoice: When hovering over a UI icon, scrolling and zooming with the middle button, the icon display will deviate from the voice                   |
| QuickCalc: After selecting all the numbers, clicking on the numbers in the numeric keypad does not replace the selected numbers.                       |
| 3dorbit: When the coordinate point is very large, the 3dorbit process cannot be scaled or translated                                                   |
| layout: The layout switching time in the attached template drawing is slow                                                                             |
| UI/win10: In the win10 system, when ZWCAD2020 is not displayed in full screen, the interface border display has problems                               |
| ddedit: When editing text in an attachment, the edit box range is incorrect                                                                            |
| refedit\copy: Refedit the copied dynamic block, but it does not become a normal block after exiting the reference editing                              |
| dimassoc: When dimassoc is equal to 0, the created arc length annotation and other types of annotation processes are inconsistent with acad            |
| table: Inserting a print scale field into a table, and finding inconsistent display                                                                    |
| Dimension: The text color in the annotation of the attached drawing (Double-spindle extruder tool holder 12.7_original.dwg) is not displayed correctly |
| dyninput: Dynamic input cannot display the Z coordinate value of the snap point                                                                        |
| The tangent vector returned by zrx\AcDbEllipse::getFirstDeriv: interface is incorrect                                                                  |
| trim: Select the block reference first and then execute the trim command. Press Enter to select all. Objects cannot be trimmed.                        |
| torus/solprof: Execute solprof command on the attached torus, generating redundant reference blocks                                                    |
| xclip\open: Incorrect display of reverse-cropped block references in attached drawings                                                                 |
| xclip: reverse clipping of blocks with xline and ray, the clipping effect is incorrect                                                                 |
| shademode/table: In shademode's 3d/h/f/g/l/o branch, the highlighting is incorrect when the table is selected                                          |
| mtext/rotate: When rotating or copying text in the attached drawing, the preview effect is wrong                                                       |
| xattach/pdfframe/dwfframe: Setting the basemap border in the external reference does not display                                                       |
| Transparency/shademode: In non-2D/3D shading modes, the drawing order affects whether entities obscured by transparent 3D entities are visible.        |
| Transparency: The part of the entity that is blocked by a transparent 3D entity cannot be highlighted.                                                 |
| Transparency/fillet/chamfer: chamfer and fillet of transparent 3D solids, chamfered faces and fillets are opaque                                       |
| -hatch: Create hatch at specified points in attached drawings, and fail to create hatch successfully                                                   |
| area: Shaded areas have incorrect drawing order for entity borders                                                                                     |
| xref: Attach a drawing with a shared block as an external reference, and some entities of the external reference are highlighted                       |
| Transparency/hatchedit: Editing hatch pattern transparency in the fill dialog did not work correctly                                                   |
| UI: The pin icon display effect is wrong                                                                                                               |
| Dynamic input: The mouse triggers the dynamic input box in the drawing area, and pressing the up and down keys on the keyboard will input "&" and "("  |
| layer/vports/vplayer: open the layer panel, activate the viewport, execute vplayer, switch the viewport, and pop up an error prompt box                |

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| pdfclip: zoom in on a reverse cropped pdf basemap, the basemap displays reversed                                                                                                         |
| view: Attached drawings with front and back clipping are not displayed correctly                                                                                                         |
| properties/open: The display effect was not refreshed in time when adjusting the property bar during the execution of the open command                                                   |
| toolbar\vports: After changing the polygon viewport scale, the values in the viewport toolbar were not displayed correctly                                                               |
| xclip\ray: Attachment reverse clipping of block reference with ray, incorrect display                                                                                                    |
| 4K/toolbar: When DPI=300, the preview box moves when the toolbar is selected                                                                                                             |
| toolpalettes: After changing the block decomposition property to "Yes", dragging the block from the tool palette to the drawing area by dragging, some of the entity properties are lost |
| xref/refedit: In-place edited xref tables cannot be bound to drawings                                                                                                                    |
| ZRXSDK Upgrade\AcGiDrawableOvrerrule: extmin and extmax system variables should not be affected by overrule                                                                              |
| ai_selall: Select all entities in the attached "zwcadcs.dwg" drawing, which reduces efficiency                                                                                           |
| ddedit: When the attachment text enters the editing state, the field display effect is incorrect                                                                                         |
| open: Opening the attached drawing "011_RG_1_Alles_3d.dwg" is slower than zwcad2020sp2                                                                                                   |
| osnap_shademode: In the hidden mode, the attached drawing cannot capture some feature points of the polyhedral mesh                                                                      |
| osnap: When snapping to the intersection of an extension line and an entity, the wrong extension line is snapped                                                                         |
| 4K/bedit: The interface buttons for block in-place editing are too small                                                                                                                 |
| mleader: Multileaders whose attachment content is attribute blocks are not displayed correctly                                                                                           |
| mtext: When editing multi-line text, copying two lines of text, and pasting with Ctrl+V after line break, the text does not display correctly after pasting                              |
| plot_linetype: The 2D polyline with linetype in the attached drawing is not printed correctly                                                                                            |
| select_efficiency: After turning on the display of block grips in the attached drawing, the efficiency of selecting block references is reduced                                          |
| vslide: After importing sld file in English version, ucs icon is not displayed                                                                                                           |
| bedit: Suggest to modify the block edit change save dialog prompt information                                                                                                            |
| swr_ArchCore.zrx: After loading swr_ArchCore.zrx, execute the -veiw command la branch. After pressing Enter twice, the command input line displays an additional "?" option              |
| Crosshair: When opening the attached drawing, the crosshair cursor is not displayed correctly                                                                                            |
| xref: After unloading and reloading the parent xref, the status of the nested xref in the xref panel is not displayed correctly                                                          |
| refedit/laylck: Locking all layers in external reference editing mode and saving results in incorrect results                                                                            |
| dim/4K/properties: The icons in the arrow drop-down list in the property bar are displayed incorrectly                                                                                   |
| layout/select: Select entities in the layout space of the attached drawing, and the grip points are displayed in black                                                                   |
| xref/externalreferences: If there is content on the left that is not displayed, there will be a blank area on the left side of the panel after widening the panel                        |

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| Hatch/properties: When creating a "user defined" type of hatch, the "pattern name" property in the property bar does not display the name                                                            |
| osnap\DIMREASSOCIATE : Dimension associative operations on 2D polylines by scripting or entering coordinates in the command line, and the snap marks will not disappear                              |
| Clip: Objects in attached drawings cannot be selected as clipping objects                                                                                                                            |
| shademode/select: In shade mode, when an entity is selected, the highlight is incorrect                                                                                                              |
| pline/clip/osnap: Draw pline by capturing feature points of basemap and clipping boundary, clipping display effect is incorrect                                                                      |
| xclip\attdef: In a reverse clipped attribute block, dragging an attribute beyond the block boundary will not display the attribute                                                                   |
| dimension: After any modification is made to the attachment annotation, the display position of the annotation text changes                                                                          |
| tableedit: When editing a table cell in place, the right-click menu has an extra "background mask" item                                                                                              |
| bedit/undo/redo: After undo and redo, the block disappears when you click Exit Edit                                                                                                                  |
| hatch\wipeout: When the cursor moves into the area coverage, the fill below the area coverage is not displayed                                                                                       |
| Offset: When LWDISPLAY=1, the offset operation is performed on entities with non-default line widths, and the entity is displayed abnormally                                                         |
| Leader: When executing the leader command, when selecting the B branch in the "Enter annotation text option", the command flow is incorrect without entering a block name and pressing Enter.        |
| -attdef: -attdef command does not correctly execute the F branch under the J branch. There is an extra "specify text rotation angle" process.                                                        |
| xref/ttf: The clipped ttf font text blocks in the external reference are not grayed out in the shaded mode                                                                                           |
| Oops: After deleting an entity, deleting the layer where the entity is located, and then restoring the entity, the entity data is incorrect                                                          |
| dwfattach: Insert attachment base map, double-click the middle button to zoom in, the display is incorrect                                                                                           |
| scr\extend: Extension operations cannot be performed through scripts                                                                                                                                 |
| Hatch: For more complex graphs, you cannot pick points inside to create a hatch                                                                                                                      |
| Osnap/layout: Snap to the endpoint of a line in the layout space. Press the tab key to switch endpoints. If you do not move the mouse to specify a point, you will snap to the first endpoint.       |
| join: Execute the join command. If the selected objects cannot be merged, the command line does not output any prompt information.                                                                   |
| zvalto0: z-axis return to 0 function, the z-axis coordinate of the entity in the UCS coordinate system is not returned to 0 correctly                                                                |
| eattedit: After modifying the attribute value of the attribute block in the attachment, it cannot be saved successfully                                                                              |
| layout: In the layout space, set the unified background color to black, the drawing background to white, insert the attached PDF into the drawing background area, and the PDF will not be displayed |
| dsettings: Check "Equal spacing between X and Y" and "Snap to X/Y axis spacing". You can still click to switch tabs even if you enter illegal characters in the input box.                           |

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| xref/refedit: When editing external references in place, you can modify and save external reference drawings                                                                       |
| xbind: After binding a block in an external reference, insert the bound block and save the drawing. When you open the drawing again, the color of the inserted block is incorrect. |
| shademode: The surface object performs the hidden operation without effect                                                                                                         |
| filedia/open: filedia=0, execute the open command, the input text information is not displayed in the dynamic input box                                                            |
| blockbreak/stretch/ucs: insert a block as a mask, change ucs and edit the grip to move it, the area cover associated with the block does not move synchronously                    |
| open: The attached drawing ZWCAD opens without response or prompts to recover                                                                                                      |
| Open: Attachment drawing opens and displays an error                                                                                                                               |
| dimlinear: When manually entering three points to create a corner annotation, the default creation position is wrong                                                               |
| properties: When the property bar is in suspended state, the property button and the auto-hide button have no hover annotation function                                            |
| refset: Select the entity in the object in the original external reference to perform the add operation, and no prompt is given                                                    |
| ZRX_getdistpoint interface output error                                                                                                                                            |
| open/save: After the attached drawing "hgfh_savebyAcad.dxf" is saved as dxf r12 format, the entity is not displayed when opened in zwcad and Acad                                  |
| shademode/3d: Thick line 3D solid with border shading, some lines are lost                                                                                                         |
| layout/3dorbit: After performing dynamic observation in layout space, the mouse cursor is displayed incorrectly                                                                    |
| smartPlot: When the plot frame is a scattered line, the order is related to the Y axis of the plot frame, resulting in incorrect printing order                                    |
| refclose/undo/pasteclip: After exiting in-place editing, undo/redo is executed, and then copying and pasting the block fails                                                       |
| xclip: After creating a reverse clipping boundary for a text block in ACAD and saving the drawing, the display is incorrect when opened in zwcad                                   |
| open: The attached drawing cannot be opened on ZWCAD                                                                                                                               |
| wblock: After selecting an object, the entity is not unhighlighted when the esc command is used to exit the command when selecting the object again                                |
| dimedit: When the rotation angle is set to 0, the annotation position is moved                                                                                                     |
| LWEIGHT: When entities with line width are created continuously, the line width is not displayed correctly and remains after deletion.                                             |
| array\view: The row spacing of a rectangular array created in the back view cannot be modified by grip editing                                                                     |
| array\refedit: Nested associative arrays contain block reference entities, and the refedit command can still be executed                                                           |
| array\properties: switch path array "mode", some property items are not hidden                                                                                                     |
| arrayedit: When modifying the source entity attributes in the associative array editing state, the associative array is not updated and displayed immediately                      |
| find: Search in selected entities, replacing objects based on the search results is slow                                                                                           |
| array: Objects that can create associative arrays do not block the viewport                                                                                                        |
| array_gripedit: grips controlling rows, columns, levels and spacing have no hover annotations                                                                                      |
| arraypath: When creating a path array, the "tangent direction" related functions are not implemented                                                                               |

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| arrayedit: When editing a source entity, the entire array does not change accordingly to the source.                                                                                                                                               |
| arrayedit: After selecting the source of an array, you can still highlight all entities in the array when the cursor moves to the array.                                                                                                           |
| arraypath: Select the path array and path entity, activate the array base point, and pop up the "Associated Path Array" dialog box                                                                                                                 |
| arraypath/spline: incorrect path array grip effect when editing closed spline as path                                                                                                                                                              |
| arraypath: Moving the base points of multiple path arrays at the same time does not work correctly                                                                                                                                                 |
| dview: After executing the dview command for the first time in the active viewport and selecting a table in the viewport, the entities above the table are displayed incompletely                                                                  |
| array: Activate the path array base point, and the pop-up "Associated Path Array" dialog box will be displayed on top of all other program windows                                                                                                 |
| Datalink: After changing the location of the Excel source file in the "full path", the directory at the same level as the drawing cannot be found                                                                                                  |
| osnap/layout: When some entities are displayed in the viewport, the feature points of the entities outside the viewport cannot be captured                                                                                                         |
| arraypath/Ribbon: After locking the number of items, edit the grip to change the number of items, unlock and lock again, the number of items changes                                                                                               |
| saveas: Failed to save the attached drawing "toilet tile revision 1.dwg" as R14 format                                                                                                                                                             |
| Panels: When dragging panels such as the property panel from a floating state to a docked state, a preview border remains                                                                                                                          |
| arrayedit/bedit: Editing array source in the block editor closes the block editor tab when exiting array editing                                                                                                                                   |
| loft/spline: Create 3D entities from closed spline curves, deform spline curves                                                                                                                                                                    |
| Array\table: When editing a source, the right-click menu cannot be displayed when selecting a table cell in an array composed of tables                                                                                                            |
| array/ray: Ray creation rectangular array and path array effects in attachment drawings are incorrect                                                                                                                                              |
| arrayedit: Execute the rep branch, select the object to point to the base point, and press Enter to exit the command branch process                                                                                                                |
| arraypath: In the property bar, change the array method to "Fixed Distance Equal Division" and then click on the item spacing and change it back to "Fixed Number Equal Division". The item spacing cannot be modified.                            |
| xatach/arrayedit: When making an xref into an array, the source is not highlighted when editing it, and the source display order is incorrect                                                                                                      |
| ddedit: Open the original ACAD-generated drawing, edit the angle annotation, and the position of the annotation will shift.                                                                                                                        |
| Publish: Background printing of attached drawings, objects in the printed PDF file are not displayed correctly                                                                                                                                     |
| open: Open the attached drawings Huaibei Plank Road Platform Detail-wxy-1210-wx.dwg and SK140_M2002_SLUDGE (2).dwg, zwcad prompts a repair error and cannot open the drawings                                                                      |
| Plot: When background printing to an existing file, and the existing file is in use, the prompt "XXX file is in use, please specify another file name" does not pop up                                                                             |
| publish: After the drawing is automatically saved, the publish background prompts that the drawing is successfully published, but the print result is not generated in the target path, and the drawing name in the print information is incorrect |

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| Plot: When printing objects to PDF in shaded mode, the arcs are very rough and some entities are not fully displayed                                                                                                                                 |
| mredo: Executing last branch has incorrect effect                                                                                                                                                                                                    |
| Hatch: When opening a circular solid hatch created in ACAD2020 in ZWCAD, the display effect is incorrect and the hatch transparency has no effect                                                                                                    |
| bedit/chspace: chspace command not properly masked in block editor                                                                                                                                                                                   |
| image/clip: The cropped image in the attachment does not display correctly after enlarging it                                                                                                                                                        |
| mpedit\arc: Fitting operation after converting arc to polyline does not work correctly                                                                                                                                                               |
| Vports/Undo: When performing multiple vports in model space and then undoing/redoin, it is easy to have no currently active viewport.                                                                                                                |
| VIEWPORT: Layout space small viewport activation display incorrectly                                                                                                                                                                                 |
| pdfattach/zoom: Zoom the drawing after inserting the attached PDF, low efficiency                                                                                                                                                                    |
| plot\plotstamp\log: The generated plot log file path is incorrect                                                                                                                                                                                    |
| save\open: The attached drawing "1635.dwg" cannot be opened normally after being saved in dxf format                                                                                                                                                 |
| DSVIEWER: In the state of multiple documents, opening the bird's eye view dialog box to zoom the view between multiple documents will cause ZWCAD to crash.                                                                                          |
| plot: The "Dither", "Convert to Grayscale", and "Adaptive" controls in the "Normal" style of the plot style table editor are now editable                                                                                                            |
| properties: The minimum width of the property bar is too small in the suspended state, and the property value is not displayed                                                                                                                       |
| open: The drawing "DgnUnderlay_2.dwg" is saved as dwg_r14 format in ZWCAD, but crashes when opened in acad                                                                                                                                           |
| xclip/regen: Opening and regenerating drawings with many clipping boundaries of block references is very inefficient                                                                                                                                 |
| xref: Insert nested external reference, reference node error in panel causes failure to bind                                                                                                                                                         |
| xclip: Incorrect clipping effect of xclip under ucs                                                                                                                                                                                                  |
| arrayedit: Unable to nest edit source objects of multi-level nested associative arrays                                                                                                                                                               |
| arrayedit: When editing a source object, selecting or hovering over other objects in the array will gray out the source object                                                                                                                       |
| open: When ZWCAD opens the attached drawing "Cuokuai Jiankui QuANJI Kaige Mang Caries File Shelf.dwg", it prompts a repair error and cannot be opened                                                                                                |
| save: The attached drawings "kravare 35 export stavba.dwg" and "Quark_Equinix_2D_21102019.dwg" are opened with acad and saved as 2000dwg, and then opened with zwcad and saved as dwg2000 again. zwcad does not respond for a long time when saving. |
| shademode\undo: After executing the hidden branch under shademode and then executing the undo command, the model space object disappears                                                                                                             |
| Flatshot: When projecting the 3D entity of the attached drawing, the response time after clicking "Create" is too long (about 60s), and the entity projection image is displayed incorrectly                                                         |
| Flatshot: The circle and the straight line are clearly separated in the projection image after the cylinder is flatshot.                                                                                                                             |
| Flatshot: The projection image of the attached drawing is wrong                                                                                                                                                                                      |
| Flatshot: When projecting the revolved surface of the attached drawing, the projected image is not displayed correctly                                                                                                                               |

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| Flatshot: The attached drawing is projected, and the projected image is slightly different from the competing product                                                                                                               |
| dimstyle: After checking "Main Unit - Linear Dimension - Suppress Zero", the radius dimension shows missing R mark                                                                                                                  |
| dimstyle/R14: After modifying the arrow style of the annotation and saving it as a drawing in R14 format, the arrow style is automatically restored to solid closed                                                                 |
| open/save: Open the attached drawings "No. 3 Exhibition Hotel Area.dwg" and "4#, 21#, 22# Weak Current Plane_t3.dwg", prompting to repair errors, and open the drawings saved in acad as dwg2018 format, prompting to repair errors |
| open: zwcad opens the attached drawings "CREmail_Drawing_6447.dwg" and "A9-103_佳ㄣ橐嗑匆匆躬驗_G 610330_R1.dwg", prompts to repair errors                                                                                                  |
| open: Open the attached drawing "PT 4.dxf", prompting that the file opening failed (ENTER to continue)                                                                                                                              |
| vports/regen: Some entities in the viewport of the attached drawing need to activate the viewport and regenerate before they can be displayed                                                                                       |
| Plot: The preview effect of the attached drawing "1 Jumian Bangbian P & ID-2016.11.16.dwg" is incorrect under the scope of view                                                                                                     |
| mtex\mtedit: When mtextfixed=2, the edit box is displayed incorrectly                                                                                                                                                               |
| Zoom: Zooming entities with line width to the edge of the drawing area, the entities are not displayed correctly                                                                                                                    |
| open: zwcad opens the attached drawing "20161027 Company Equipment and Facility Distribution Map Third Plan.dwg" without response                                                                                                   |
| vports: Attached drawings do not correctly apply viewport overrides, layer colors, line widths, etc. are not displayed correctly                                                                                                    |
| zoom\undo: After executing zoom-e in the attached drawing, executing undo will not display it                                                                                                                                       |
| DWG R14\Open\Save: Attached drawing "C Plane 2014.03.26_SavebyAcad.dwg" saved as DWG R14, ZWCAD open hangs                                                                                                                          |
| LINESMOOTHING: After drawing any entity, some pixels are missing                                                                                                                                                                    |
| DWG R14\Open\Save: The attached drawing "M-05 Planting_SavebyAcad.dwg" is saved as dwg R14, and ZWCAD opens it and prompts to repair the error                                                                                      |
| blockbreak: When inserting multiple dynamic blocks in mask mode, the display is incorrect after editing two dynamic block grips                                                                                                     |
| refedit: In-place editing selects the created entity and adds it to the working set, without prompting "already in working set"                                                                                                     |
| preview: DASHED arc line type, line type display error during preview                                                                                                                                                               |
| Plot: Circles, arcs, ellipses, and elliptical arcs with line widths have noticeable gaps when previewing and printing in shaded mode                                                                                                |
| Plot: During print preview, the preview graphics are missing when zooming in and out with the middle mouse button multiple times                                                                                                    |
| plot: The PDF file printed by ZWCAD is larger than that printed by ACAD                                                                                                                                                             |
| preview: When previewing, zoom the drawing or maximize the program and then zoom the preview drawing, some entities are not displayed                                                                                               |
| Plot: When the preview of the ray/construction line of the physical printer (HP LaserJet Pro MFP M128fw) is zoomed in and out under UCS, the line type changes or disappears                                                        |
| plot: attachment drawing, fill in blocks is not displayed correctly when shading print preview                                                                                                                                      |
| solidedit: When the outer offset distance of a 3D solid shell is very small, the solid is displayed incorrectly                                                                                                                     |

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| export\text: When exporting text to wmf, the result is blank or black blocks appear                                                                                                                         |
| display/plot: When the attached drawing is opened, the solid lines are vaguely visible, the print preview is the same as above, and the print result is incorrect                                           |
| Plot: When the transparency command sets the image to on, the image is printed and the result is displayed incorrectly                                                                                      |
| Plot: When printing attached drawings using PNG, the PDF base map border is not displayed correctly in the printed result                                                                                   |
| open\save\dwg R14: The attached drawing "First Floor, Roof, Section_SavebyAcad.dwg" is saved as dwg R14 in ZWCAD, and then opened in ZWCAD prompts to repair the error                                      |
| Plot: The dot line type is not displayed correctly when the graphics preview is zoomed out                                                                                                                  |
| preview: The line type is a dot type straight line or polyline. When the line type ratio is small, the print preview does not display the line type.                                                        |
| -insert: When using "*filename" to insert a decomposed block, cancel or complete the operation of inserting the decomposed block, and then execute -insert again, the command line prompt is incorrect      |
| save\open\dwg r14: The attached drawing "キ瓜(材跑硯)1070528_SavebyAcad.dwg" is saved as dwg r14 format by ZWCAD, and then opened by ACAD, prompting that it needs to be repaired                                |
| [Beta Feedback] Copy: When copying block references and area coverages in attached drawings at the same time, the area coverage position is incorrect                                                       |
| copy\group: The efficiency of group copying in attachment drawings is slow                                                                                                                                  |
| Leader: Execute the Leader command, enter the starting point of the leader, enter the next point that is consistent with the starting point, and the leader is still created.                               |
| plot\preview: zoom in and out during preview, and the entire graphic moves                                                                                                                                  |
| publish: After executing publish to publish the model and layout 1 of the attached drawing, the drawing is switched to the layout space after publishing and cannot be switched to the model space smoothly |
| Plot: Background printing of attached drawings, after the pop-up prompt bubble is completed, printing cannot be performed again                                                                             |
| Dynblock: Unable to select alignment direction of dynamic blocks                                                                                                                                            |
| plot: Fields not updating correctly when background plotting                                                                                                                                                |
| xref: bind nested external references, perform undo, and add one more node in the tree diagram                                                                                                              |
| Move: When moving an attachment drawing object, the cursor, rubber line endpoint, and moving base point do not coincide, causing a delay in the move operation                                              |
| help: In the help document, the index icons are not fully displayed.                                                                                                                                        |
| DIMREASSOCIATE: When selecting multiple dimensions for association, the comparison display positions of all dimensions except the first dimension were incorrect                                            |
| open: The error message when opening the attachment "Work Instruction Card (Assembly) (1).dwg" has been fixed                                                                                               |
| pagesetup/grip: Grips appear black after showing print style "Monochrome.ctb" in layout                                                                                                                     |
| Plot: Using a raster printer and a physical printer, printing attached drawings, the gradient fill print range is incorrect                                                                                 |

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| shademode/dynamic: In shaded mode, set the line width before drawing the entity. The dynamic preview also displays the line width.                                                           |
| Plot: OLE objects are printed in monochrome and printed in color using a dwf printer                                                                                                         |
| Plot: When printing attached drawings to PCL or LHPGL printers, the print file size becomes significantly larger                                                                             |
| DIMBREAK: Multileaders using spline leaders do not support dimension breaks, but there is no relevant prompt                                                                                 |
| smartmouse: Turn on mouse gestures. During the execution of commands, turn off mouse gestures and the mouse gestures can still be executed.                                                  |
| attdef/ucs: Creating multiple multi-line attribute definitions under UCS, the text editor opens in the incorrect position                                                                    |
| plot/preview: Select the drawing frame in the attached drawing to print, and the left border of the drawing frame will appear and disappear when zooming in and out during print preview.    |
| open: After saving the attached drawing "CREmail_Drawing_7532.dwg" in DWG2018 format in ACAD, an error message appears when opening it in ZWCAD. Fixed                                       |
| pagesetup\plot: Print settings created by the plot dialog, units cannot be remembered                                                                                                        |
| Plot: In the attached drawing printing results, the hollow areas of numbers and text become solid                                                                                            |
| -plotstamp: Enter text height as 0, no error message                                                                                                                                         |
| txt2mtxt: When executing the txt2mtxt command in the layout space, the thickness of the generated multi-line text is inconsistent                                                            |
| rename: When changing a name, illegal characters are not recognized.                                                                                                                         |
| Plotstyle: A warning box will pop up when any number or character is entered in the scaling box                                                                                              |
| group/grip: After canceling the hot grip of a group object, selecting the grip of another object and dragging it does not work correctly                                                     |
| gripedit/circle: when holding down shift and selecting a non-center grip point of a circle, and then dragging the grip point, the displayed rubber line is incorrect                         |
| commanline: After executing a command, a long string of characters is entered, and the right side of the command line is not fully filled.                                                   |
| ai_selall: Select all entities in the drawing "Topology of July Acceptance Data.dwg", efficiency decreases                                                                                   |
| saveas: The attached drawing cannot be saved as DXF R12 format, and the progress bar is always at 0%                                                                                         |
| Dynamic Input: I hope the dynamic input list box can add command sorting function                                                                                                            |
| dimbreak: Manual interruption followed by automatic interruption, incorrect annotation interruption effect                                                                                   |
| dview: Graphics and cursor display are abnormal after the camera angle is switched twice                                                                                                     |
| Open: Open the attached drawing "Test.dwg" and the Thai text position is not displayed correctly                                                                                             |
| pdfimport: Converting attached drawings has extra lines                                                                                                                                      |
| -plotstamp: Execute the log file branch. When setting the log file path, only relative paths can be recognized.                                                                              |
| selectioncycling: When overlapping entities appear under the cursor, select the top entity first, then use shift+space to cycle through the selections. The highlighting effect is incorrect |

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| insert\undo: After inserting two drawings with the same name, the undo operation requires regen before updating                                                                              |
| clip/pdf: crop pdf base map, crop border is not fully displayed                                                                                                                              |
| shademode\hide: The hidden display effect of a circle with thickness is incorrect                                                                                                            |
| Plot: The circle with thickness is hidden and printed, and the printing result is incorrect                                                                                                  |
| display\lineweight: Entities with line weight are not displayed correctly at the layout space boundary                                                                                       |
| dimreassociate: Missing prompt information when the coordinate dimension is associated to a non-feature position on the entity                                                               |
| dimim: Some features of "Overwrite existing style" cannot be overwritten                                                                                                                     |
| Plot: The cropped Thai ttf text is not smooth when printed as an image                                                                                                                       |
| license: The prompt window after the license expires does not highlight the key information                                                                                                  |
| syswindows: After tiling the drawings horizontally, activate any document and start dynamic input. When entering commands, the document border style changes                                 |
| zwplot/smartplot: Smart printing of existing layouts has an exception error when selecting a layout                                                                                          |
| table\arrayedit: When editing an array, the display effect is incorrect after switching the data format                                                                                      |
| pdfimport: Printing multiple lines of text with different tracking factors to PDF and then importing shows error                                                                             |
| plot: Printing shaded viewport with raster printer, entities lost                                                                                                                            |
| text: When opening the attached drawing, there are a lot of useless large texts                                                                                                              |
| refedit: The order of reference names in the reference edit box is incorrect                                                                                                                 |
| Options\Plot: The ability to set the "Use last available print settings" option in the "Plot" tab had no effect                                                                              |
| dimstyle: Tolerance display position of alternate units in dimension is incorrect                                                                                                            |
| plot_options: The "Use the last available print settings" function in the print settings is invalid                                                                                          |
| dwfclip: inverted clipping boundaries, dwf basemap displayed wrong                                                                                                                           |
| zwplot: The attached drawing is not clear when printed with pdfFactory Pro                                                                                                                   |
| Plot: The efficiency of coloring and printing the attached drawings is about 24% lower than that of ZWCAD2022SP1.                                                                            |
| dimtxtcol: Open the attached drawing, modify the text color of the radius annotation, and shift the annotation                                                                               |
| Highlight: When the straight line is very long, it is not highlighted when hovering or selecting.                                                                                            |
| Clip: Grip editing effect is incorrect after inverting the clip border                                                                                                                       |
| dimstyle: The "Adjustment" option of the substyle is displayed incorrectly. No matter how it is modified, it will be displayed as consistent with the basic style                            |
| blockbreak: inserting blocks in masked form, incorrect results after copy/array/rotate                                                                                                       |
| -array: After selecting the base point and then the center point of the circular array, when specifying the angle, the starting point of the rubber line is not at the selected center point |
| Text_plot: The Thai text in the attached drawing "Thai Printing Problem.dwg" is not printed correctly                                                                                        |
| mleader: The maximum number of nodes cannot be set to 0                                                                                                                                      |

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| bedit: When editing a block with attribute definitions, modify the name and prompt and then modify the default text, the name and prompt will return to the state before the modification                  |
| ArcGIS: When the "Type" of the coordinate system selector is Geographic, you cannot further filter the coordinate system by "Category"                                                                     |
| Plot: Diameter symbol is not effective after adjusting the spacing between characters                                                                                                                      |
| dimreassociate: when reassociating annotations to some illegal objects, no error message was given                                                                                                         |
| dimim: After importing annotated dimensions, the dimensions lose their annotation and other attributes                                                                                                     |
| Table: The cell is filled with color and has a narrow width. The fill color is displayed beyond the cell range when editing.                                                                               |
| tabledit: When editing the date text in the table, the text is misplaced                                                                                                                                   |
| chgbhei: After changing the block text height, the undo command cannot refresh the display in time                                                                                                         |
| dim/minsert: wrong associative effect of adding annotations to multiple insert blocks                                                                                                                      |
| dgnimport: When importing V7 version dgn with fill, the solid filled entity border is displayed incorrectly                                                                                                |
| extrude: When the view is set to left, right, front, back, and then to isometric, it is not possible to create a surface by extruding the curve                                                            |
| refset: Objects not created in the same space are added to the same working set without giving a failure prompt                                                                                            |
| zoom: Open the attached drawing and double-click the middle mouse button to get incorrect results                                                                                                          |
| properties\dimlinear: The property bar lacks the item to change the dimension line and dimension line type                                                                                                 |
| Plot: When printing to a dwf file, only enter the file name without a suffix to avoid duplication of names.                                                                                                |
| xline: When opening the attached drawing, the construction lines are not displayed completely                                                                                                              |
| xref/undo/redo: Attach an external reference, close the external reference panel, execute redo after undo, and there is no attached external reference information in the external reference panel         |
| block: nested blocks with clipping of sub-entities, reverse clipping, the clipping boundary of the sub-entities is not fully displayed                                                                     |
| refedit\undo: After editing an external reference, undo does not undo the operation correctly                                                                                                              |
| open/saveas: After saving the attached drawing "Master Layout Electrical-Ph1,Ph2,Ph3 HT connection_1_SavebyAcad.dwg" in ZWCAD as dwg R14 format, opening the saved drawing in ZWCAD prompts a repair error |
| mtext: When opening the attached drawing "mixed single-byte and double-byte .dwg", Hebrew multi-line text is displayed incorrectly                                                                         |
| hatch\minsert: The boundaries of multiple insertion blocks cannot be used as the boundaries of fill                                                                                                        |
| layoff: When inserting an external reference in layer 0 and using layoff to close layer 0, the layer list open/close symbol is not displayed correctly                                                     |
| TABLE/TEXT: The text in the table created by ACAD and containing text in a minority language is not wrapped automatically when opened in ZWCAD.                                                            |

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| open/saveas: After the attached drawing "Major adjustment of the mall division (moved into five channels for the construction unit) 8.25_SavebyAcad" is saved as dwg R14 format by ZWCAD, the progress is always 0 when opened by ZWCAD |
| block: Redefining sub-blocks in nested blocks in a small viewport of the layout space does not display updates in time                                                                                                                  |
| save\vpmax: Save the file after maximizing the viewport in the layout space, but it still prompts that it is not saved when exiting                                                                                                     |
| bedit/shademode: Modify the visual style in block editing state, and the changes should not be saved when exiting the block editing state                                                                                               |
| Table: Double-clicking to edit the content of a cell with non-text data type, and changing the alignment through the left, right, or center alignment on the text editing toolbar does not work correctly                               |
| revolve: When the rotation axis is perpendicular to the plane of the rotation curve, the rotation body cannot be created without error message                                                                                          |
| vports/pdfattach: attached pdf basemap is not fully displayed in polygon viewport and object viewport                                                                                                                                   |
| 3D/shademode: Create 3D entities in shaded mode and the preview effect during grip editing is 2D wireframe                                                                                                                              |
| lisp: After adjusting the Windows language settings to support UTF-8, garbled characters are displayed when using lisp statements in ZWCAD                                                                                              |
| xref\image: Setting the scale factor to 0 when attaching an external reference has an incorrect effect                                                                                                                                  |
| refedit: When laying out multiple viewports, a block reference in one viewport is not displayed correctly in other viewports after undoing the reference edit                                                                           |
| copyclip\pasteclip\dimangular: The three-point angle dimension created in Acad does not work correctly when copied and pasted in 2017                                                                                                   |
| display/block: Block references with clipping boundaries in attached drawings are displayed incorrectly                                                                                                                                 |
| ucs/xclip: Rectangular clipping under ucs, clipping effect is wrong                                                                                                                                                                     |
| layout: After dragging the layout position in the layout viewport tab, the layout space does not update in time when clicking on a non-current layout                                                                                   |
| pickbox: When changing the cursor target box size through the pickbox, the target box size display is not updated in the current drawing                                                                                                |
| refedit: The name of the second button in the Edit Reference ribbon panel should be Discard Changes                                                                                                                                     |
| mtext: After setting the "Tracking Factor" for multiline text, the display effect of the scaled drawing is incorrect                                                                                                                    |
| dyninput: Double-click the middle mouse button, the dynamic input box in the drawing area flashes                                                                                                                                       |
| attdef: Default text inserted into object field in Edit Attribute Definition dialog box, cannot select itself                                                                                                                           |
| field: ZWCAD will automatically rotate 270° when inserting a field on an attachment drawing                                                                                                                                             |
| exportlayout: The attached drawing "00. 용지도_전제1.dwg" has a problem with the drawing order after exporting                                                                                                                               |
| CAL: Geometry calculator uses ang command, the output format is different from competitors                                                                                                                                              |
| insert: Block test already exists in the drawing. When browsing a drawing with the same name (which also contains block test), the effect is incorrect after redefining the block                                                       |

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| laydel/block: When the block reference is on a different layer than the block definition, the preview is incorrect when selecting the block reference                                                    |
| 3Dconnexion: When executing a command with the middle button of the cadmouse mouse, you can directly execute the command by pressing the left button                                                     |
| 3Dconnexion: When you set a key to some commands on the "Blocks", "Text", "Layers", "Tools", "Surfaces", "Groups", "Rendering", and "Edit" toolbars, the key does not respond when executing the command |
| table: When dragging the cell grip to minimize the cell width, there are spaces between the point coordinates in the cell                                                                                |
| When copying and pasting a table from ZWCAD to ACAD, the fields in the table are displayed incorrectly                                                                                                   |
| table\ribbon: Inserting object fields via the ribbon table cell panel does not respond correctly to command line                                                                                         |
| table/saveas: The efficiency of saving attached drawings using the project version is reduced                                                                                                            |
| dynblock: Alignment parameters can only be aligned in one direction, while in ACAD it can be selectively aligned in both directions                                                                      |
| shademode\export\DWF: Set the visual style other than "2D wireframe", and the exported DWF file will still be "2D wireframe"                                                                             |
| Publish\DWF: Background publishing of attachment drawing "144 statinys 2000 naujas.dwg", layout control publishing dwf failed                                                                            |
| Sheetset: The "OK" button of the "New Sheet" dialog box can be clicked twice quickly                                                                                                                     |
| Lockup: Lock all entities in the attached drawing, and the entities are deleted                                                                                                                          |
| Toolbar: Select an entity whose color is not per layer, and switch from 2D sketch to ZWCAD Classic interface. The entity color on the toolbar is not displayed correctly                                 |
| zoom: After opening the attached drawing, executing zoom -e, the zoom range is incorrect                                                                                                                 |
| Sheetset: The font of the "Apply changes to nested subsets dialog" prompt message is not beautiful                                                                                                       |
| 3Dconnexion: In Windows 8.1 64-bit, when all drawings are closed and the key is pressed to execute the verification command, ZWCAD crashes                                                               |
| mtext: Multi-line text containing Chinese spaces \u3000 is not displayed correctly in editing mode                                                                                                       |
| xref/exportlayout: Exporting attachment drawing layout, PDF underlay with clipping borders is not displayed correctly                                                                                    |
| Sheetset: Switch the layout of the sheet opened in the sheet set through the sheet node, and the sheet file has no modification mark                                                                     |
| table\block\xclip: The table is made into blocks, with cells as reverse clipping boundaries, and the table is displayed incompletely                                                                     |
| table: annotations created for tables should have no relevance                                                                                                                                           |
| block: create annotations for block attributes, move blocks, and annotate positions                                                                                                                      |
| solidedit: Create a 3D solid and edit the coloring of some of its edges. Edit the coloring again and the uncolored edges are highlighted incorrectly                                                     |
| 3d/shademode: The transparency effect of the attached drawing is displayed incorrectly in shaded mode                                                                                                    |
| zrx/acedSSGet: In V mode, selecting a single entity in a group results in an error                                                                                                                       |
| explode\sat\acisin: After acisin imports sat file, the efficiency of exploding drawings is low                                                                                                           |

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| zwplot/UI: After loading all zrx files in the installation directory, the zwplot preview prompts an error message                                                                                                      |
| text/dimension: Double-clicking a tolerance with superscripts and subscripts, the text editing envelope does not completely enclose the superscripts and subscripts                                                    |
| superhatch: When selecting internal points of the filling boundary, if you click an illegal point, the command will exit with an error message.                                                                        |
| table/properties: When selecting a cell in a table containing multiple data links and downloading data from the source, the properties panel flickers severely when updating the data link                             |
| table: Select a table cell, the table does not display the cell grip, and the property bar does not display the cell properties                                                                                        |
| select: The first point specified when selecting the attachment drawing is offset                                                                                                                                      |
| table: When you select a cell in a table, you can also select another table by pressing Ctrl+click                                                                                                                     |
| text: Many other languages will display an extra dot in front of the content                                                                                                                                           |
| arraypath/tretch: No warning of impending loss of associativity when stretching a path                                                                                                                                 |
| arraypath: After the associative array prompt box pops up and you click Cancel, the array grip remains red, and the dialog box always stays on top when it pops up                                                     |
| zoom/pdfattach: insert attachment pdf, zoom or pan is stuck                                                                                                                                                            |
| Plot: Window box selection, centering and filling, wrong effect after applying to layout                                                                                                                               |
| pdfimport: Print multi-line text with a width factor greater than 1 into PDF and then display an error when importing                                                                                                  |
| pdfimport: After importing the attached PDF, there are cases where lines are misaligned and colors are displayed incorrectly                                                                                           |
| plot: Print using the built-in PDF printer, and can print to other formats by modifying the file name                                                                                                                  |
| Plot: When selecting the print range in the window, drag the last window range out of the screen and the gray effect of the remaining area disappears.                                                                 |
| Security: ZWCAD has a memory corruption vulnerability that allows attackers to cause local software crashes by constructing malicious samples                                                                          |
| viewport\pan: When there are multiple viewports in the layout space, when a quick pan is performed to move a small viewport outside the view into the view range, the content in some small viewports is not displayed |
| Refedit: After the attachment drawing enters in-place editing, the text and annotations in the block become smaller                                                                                                    |
| eattedit\field: eattedit command cannot modify multi-line attribute blocks with fields                                                                                                                                 |
| ucs/dynamic dimensioning: After executing ucs to rotate the y-axis by 90°, the dynamic dimensioning effect is wrong when executing the pline command                                                                   |
| mirror: Preview disappears during command interaction                                                                                                                                                                  |
| Plot: The attached drawing "Shading.dwg" has incorrect geometry hidden printing effect                                                                                                                                 |
| preview: When printing preview, zooming in on the preview, the rays and construction lines using line types are not displayed correctly                                                                                |
| pdfimport: Importing file in chunks, some entities not in chunk                                                                                                                                                        |
| selection/spline: Display spline as control points. Mouse selection of spline will get stuck when zoomed in.                                                                                                           |

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| array: creating an associative array by number of items and angle between items, array fill angle calculation error                                                                |
| revcloud/drag: In the cloud line free drawing mode, the cloud line will disappear when entering the reverse branch judgment                                                        |
| shademode/3dorbit: In 3D visual style, construction lines and rays cannot be extended infinitely when operating with 3dorbit                                                       |
| 3dorbit: When launching ZWCAD from the system taskbar, it is not possible to switch to the drawing where 3dorbit is running.                                                       |
| mtext: Shortcut CTRL+Backspace does not work correctly                                                                                                                             |
| attdef\block\field: multi-line attribute definition block with fields, edit attribute definition, fields cannot be deleted or edited                                               |
| zoom: After opening the attached drawing and zooming multiple times, ZWCAD crashed due to the excessive GDI number.                                                                |
| install: When installing ZWCAD, drag the ZWCAD installation wizard window, and the preview box size is larger than the window size                                                 |
| shademode: After reopening a multi-viewport drawing with different layout space visual styles, the hidden viewport becomes a 2D wireframe                                          |
| Move: The attached drawing "170823_1_recoverbyacad2023" moves all entities slower than competitors A and G                                                                         |
| mtext: After switching the font of special characters to HAND1.SHX, the text position is displayed incorrectly                                                                     |
| security: The website certificate of ZWCAD2022SP2feedback page has expired                                                                                                         |
| shademode: The arrows of building annotations in the attached drawings are not displayed correctly in shade mode                                                                   |
| dim\field: Create annotations arbitrarily in a new drawing, insert annotation text into the save date field, edit annotation text after saving the drawing and display incorrectly |
| text: Change the text in the attached drawing to the center. When deleting the content, the text moves and the cursor overlaps the text.                                           |
| Text: In the attachment drawing, when entering escape characters to stack text, the cursor position is wrong                                                                       |
| AcGeEllipArc3d::length: Incorrect length of elliptical arc obtained through GE interface                                                                                           |
| Hatch: You cannot select a point outside the screen to create a fill                                                                                                               |
| image:Open the attached drawing Beispiel_Zeichnung-Simplified.dwg, and switch the background transparency in the property bar has no effect                                        |
| open: The attached drawing is opened, and the viewport in the layout is not displayed                                                                                              |
| NCOPY\ucs: After selecting a nested object in ucs, the object moves, and the block reference disappears when pressing esc                                                          |
| mtext_viewport: When editing Mtext containing fields in 3D Wireframe visual style, the field background was not displayed correctly                                                |
| type: When executing type, the command line cursor often appears to the left of "Command:"                                                                                         |
| Hatch: The fill containing the annotation text degenerates and disappears directly after display.                                                                                  |
| selectioncycling: Execute the select command and select different entities in the selection set dialog box without highlighting the preview                                        |
| selectioncycling: Execute (entsel) command, select different entities in the selection set dialog box, no highlight preview                                                        |

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| shademode\table\hatch: Creates a text on the background fill. The text is not displayed in shaded mode.                                                                                                             |
| Online update: Online update does not support detection of download addresses with https protocol                                                                                                                   |
| imageclip: black blocks appear after removing crop border of inversely cropped raster image                                                                                                                         |
| [Trunk test] Hatch: Modify the fill background color to the color matching system through the ribbon panel, and the ribbon panel is not displayed correctly                                                         |
| fcmp: Drawing comparison cloud lines are displayed as polylines                                                                                                                                                     |
| ZRX\AcGiSubEntityTraits::setFillType: Custom entities are not displayed correctly in hidden mode                                                                                                                    |
| exportlayout: The third layout of the attached drawing is exported, and the prompt for opening in ACAD2023 is fixed                                                                                                 |
| XREF_refedit: After editing the external reference in the attached drawing, ACAD prompts to repair the external reference drawing when opening it                                                                   |
| Copy/dimdiameter: Copies the diameter dimension, and the dimension is still associative.                                                                                                                            |
| RefEdit: After editing the external reference in the attached drawing with RefEdit, the background fill of the table cells in the drawing is lost, and the text style is incorrect when editing the table text      |
| [R&D Feedback] xref: The saved path of the unchecked external reference in the reference list is not hidden and can still be edited                                                                                 |
| [Regression test] attdef/copyclip: when copying attribute definitions with empty default text, the copied object is not positioned correctly                                                                        |
| [Regression test] mtext\saveas: After editing multi-line text and saving it as dxf_2018 format, the display effect is incorrect when opened in ACAD                                                                 |
| hatch\highlight: In model space, multiple viewports, select a fill to highlight the fill, and when the mouse hovers over the text inside the fill, the fill highlight in other viewports is not displayed correctly |
| TEXT: After copying a single line of text with superscripts and subscripts continuously, the text will become smaller and overlap, and the edit box will be incorrect                                               |
| [Regression test] text: The cursor display position is incorrect when editing special characters in single-line text in the attached drawing                                                                        |
| [Regression test] diplay: When the non-vertical polylines with global line width are turned on, the display effect of ZWCAD is worse than that of ACAD, and the jagged edges are obvious.                           |
| [Regression test] eattedit/field: cannot edit multi-line attribute blocks with fields                                                                                                                               |
| linetype: Some line types in the attached drawings are not displayed correctly                                                                                                                                      |
| COPY: After the inserted block is blocked by the BLOCKBREAK command, the block object is copied again, and the previous block object has no blocking effect                                                         |
| Text: The editing effect of text with subscripts and superscripts is incorrect in both fit and justify text styles                                                                                                  |
| [Regression test] plot: In the layout space large viewport, the print range of the window frame selection is not obvious                                                                                            |
| Text: When creating a single-line text, after pressing Enter to create multiple single-line texts at the same time, the position of the single-line text created by pressing Enter again is incorrect               |

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| [Regression test] plot: When using a raster printer, the attached drawings have extra entities in range, print transparency, and preview zoom, and entities are missing in the print result. |
| Publish: Background publishing of drawings containing external references and nested raster images, the images are not printed                                                               |
| [Backbone Test] Hatch: Cannot create fills in the layout space viewport of the attached drawing                                                                                              |
| wsautosave\options\profile: Function combo box - workspace display error                                                                                                                     |
| [Quality Improvement] xref: The reloading time of attachment external references is 10 times slower than that of competing products. Please analyze!                                         |
| [Quality Improvement] Highlight: After zooming in on the drawing area, entities no longer have hover highlighting effect                                                                     |
| [Quality Improvement] Sheetset: When opening any sheet set, the "Sheet Properties" and "Sheet Set DWF Publish Options" dialog boxes display missing border lines                             |
| OEM: When starting the Mechanical version and ZWCAD platform at the same time, only the Mechanical version icon is displayed in the taskbar                                                  |
| Hatch: Unable to fill objects in attached drawings                                                                                                                                           |
| [Drawing test] mtext: Using Arial to input Uyghur first and then English, the character set cannot be switched automatically                                                                 |
| [Quality Improvement] Test Surface: The attached surface drawing cannot be successfully saved as DxfR12 format.                                                                              |
| Hatch: The hatch of the drawing created in ZWCAD is not displayed correctly in AutoCAD                                                                                                       |
| revcloud: After freely drawing a cloud line and pressing Enter, the cloud line preview disappears                                                                                            |
| Hatch: The effect of picking points to create a fill in an open area is incorrect                                                                                                            |
| properties/open: Set filedia=0 to execute the open command to adjust the width of the property panel, and extra blank panels appear                                                          |
| dim: When creating a dimension, entering the M branch, adding [] to the dimension text has incorrect effect                                                                                  |
| xref_bind: After the attachment drawing is bound, the prompt is repaired when opening it with ACAD                                                                                           |
| xref\xbind: After binding the blocks in the external reference, save the drawing and open it with ACAD to prompt repair                                                                      |
| open\hatch: When opening a densely filled drawing created with spline curves as the boundary, ZWCAD would freeze for more than 10 seconds if non-degenerate display was selected             |
| table: After making the table into a block, the table disappears directly                                                                                                                    |
| [Regression test] hatch: A closed area composed of multiple entities, some entities cannot find the fill boundary when they are outside the screen.                                          |
| [Regression Test] adcenter: Opening the design center and obtaining the preview of block references in the opened drawing are slow.                                                          |
| [Drawing test] hatch: After changing the fill border, the fill disappears                                                                                                                    |
| [Drawing Test] Undo/line: Classic interface. When creating a straight line, use the button to perform the undo operation. The process is wrong.                                              |
| [Confirm before publishing] Select/Lastpoint: When selecting, the lastpoint value of the transparent call after specifying a point in the W, C, or B branches is incorrect                   |
| mtext: The overline, underline, and strikethrough of multi-line text are affected by the current line type                                                                                   |

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| [Efficiency test] open: Win11 system, after adding some text to the search path, 13 drawings cannot be opened                                                     |
| mtext: When there are stacked texts in a multi-line text, select the text and then select the stacked text, the cursor will flash in front of the selected text   |
| wipeout/dimlinear/dimaligned: wipeout cannot be marked by selecting an object                                                                                     |
| 【RC】 array: When executing the array command and entering all when selecting objects, the number of selected objects is incorrect                                 |
| [Trunk test] Hatch: Open the attachment drawing and the pick point cannot be filled, and the filling is slow when the view is zoomed out                          |
| mtext: After changing the color of multi-line text, undo and redo, the color of the multi-line text in the in-place editor is not displayed correctly             |
| -wblock: In the case of multiple viewports, execute the & branch of the function -wblock, and the output drawing only displays one viewport                       |
| [RC test] [Beta internal test feedback] When turning on polar tracking and orthogonal prompt information during dynamic input, the information flickers severely. |
| SELECTION: Select two entities with overlapping grips, and only one entity can be highlighted                                                                     |
| [Regression test] dimstyle/dimdiameter: The limit deviation is displayed incorrectly after unit conversion                                                        |
| mtext: When matching multi-line text tabs through the format brush, the ruler is not updated in time                                                              |
| osnap\revcloud: After modifying the object snap settings when executing a command, the cursor movement is stuck                                                   |
| Toolbar: After changing the text style, the corresponding tooltips in the toolbar drop-down box are not updated                                                   |
| ZRX/acutPrintf: Calling acutPrintf in AcGiDrawableOvrrule::isApplicable causes ZWCAD to hang and become unresponsive                                              |
| display: After opening the attached drawing, closing the drawing and opening it again does not display correctly                                                  |
| wblock: When writing a block, after selecting an object, the highlight cannot be canceled after changing the source                                               |
| [Project Test] dxfout\filedia: When filedia is set to 0, dxfout does not support input spaces.                                                                    |
| -array: There is a problem with the prompt information in the ring array command flow                                                                             |
| xref/arctext: Arc text in external references is displayed out of position                                                                                        |
| [Backbone test] blockbreak: In some cases, the block is not displayed after inserting the block, but the data is displayed after selecting all                    |
| blockbreak: Resource error in command line when executing blockbreak                                                                                              |
| refedit\xref\undo: Double-click the external reference to enter the reference editing process. After undo, it is still in the reference editing process.          |
| [Special package test] display: Enlarge the drawing to the maximum, stretch the white straight line through the clamp point,                                      |
| help/sxfout: help document does not contain documents related to sxfout and sxfin                                                                                 |
| open/dxf: Open the attached drawing "700 MB File.dxf", it can be opened successfully but the progress bar is always 0                                             |
| fcmp: When comparing consecutive dimensions, the same dimension lines will be marked as different                                                                 |

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| fcmp/draggeom/redo: drag and drop and redo operations are slow in file comparison mode                                                                                                                  |
| insert: Selecting a block by entering its name does not result in an accurate preview.                                                                                                                  |
| table: After checking the "Do not show this dialog box again" option in the automatic stacking feature, the formula with "/" entered in the table does not work correctly                               |
| [Efficiency test] zoom: The zoom efficiency of the attached drawing with 10,000 polylines is reduced                                                                                                    |
| adcenter: Unable to drag multiple line types to other drawings at one time                                                                                                                              |
| FCMP: When comparing a blank drawing created using the zwcadiso.dwt template with an attached drawing, some entities in the attached drawing are identified as common entities                          |
| exportlayout: exportlayout command exports nested blocks into anonymous blocks                                                                                                                          |
| [Regression test] [Key customers] view/select: The selection effect of the attachment drawing is incorrect after switching views                                                                        |
| exportlayout\dimlinear: Hide dimension lines, and they will still be exported in their entirety outside the viewport                                                                                    |
| saveas: Export the attached drawing to a dxf file by selecting the object, and the drawing will be blank after opening                                                                                  |
| [Merge test] copyclip\pasteclip\dim: The copy and paste effect of the annotation with \X text replacement in the attachment "ccc.dwg" is incorrect                                                      |
| xref: Select an external reference in the External References panel. When you attach the external reference again and specify the insertion point, the selected external reference will be highlighted. |
| [Special package test] copy/Block: After copying a block, redefine the block. After undo, the original block is not refreshed in time.                                                                  |
| open: Crash when opening attachment drawings                                                                                                                                                            |
| block/xref: After copying the base map to other drawings as a block, the base map path needs to be regenerated to be displayed after updating it through the external reference panel.                  |
| [Mainline test] mtext: After the multi-line text with an inclined angle is wrapped with a carriage return, the cursor position is not correct when the up and down keys are used to move the cursor     |
| [Trunk test] pline: Polylines with short line widths are not displayed when scaled to a certain extent                                                                                                  |
| [Regression Test] [Named Customer] mtext: Cursor position is incorrect when deleting multiple lines of text in attached drawings                                                                        |
| [Main test] text: Create a single line of text with control characters, the cursor display effect is incorrect after the line break                                                                     |
| [Regression Test] [Named Customer] view: In the 3D view, the Z axis has no arrow in the 3D visual style.                                                                                                |
| fcmp: When comparing files, modify the difference points to make two drawings the same, and the unique red part of the reference drawing will still be displayed                                        |
| [Trunk Test] mtext: Multi-line text with tilt angles is not displayed correctly                                                                                                                         |
| [Main Test] mtext: When modifying any text attribute of multi-line text with tilt angle, large gaps are generated in the text                                                                           |
| [Regression test] [Named customer] blockbreak: After inserting many blocks in a blocking manner, the block break line may flicker and generate redundant objects when copying and pasting               |

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| SECTIONPLANE: For a slice type section, when the rotation grip is dragged to the upper and lower grips of the plane, the slice is not perpendicular to the section.                                                                                                                                        |
| Sectionplane: Point cloud "bridge.e57", incorrect section effect                                                                                                                                                                                                                                           |
| pdfattach\xref: After attaching a PDF, copy it, delete all attached PDFs, and the information on the external reference panel is not refreshed                                                                                                                                                             |
| pointcloud/osnap/ucs: Inserting point cloud in ucs coordinate system causes obvious lag when capturing point cloud nodes                                                                                                                                                                                   |
| dim\undo: After adjusting the "Fill" of the annotation through the property bar and undoing it, the annotation is displayed correctly but the property bar is not refreshed accordingly                                                                                                                    |
| [Automated testing] -image: The raster image specifies different new paths and the current drawing has different effects                                                                                                                                                                                   |
| [Trunk Test] fcmp: When ZWCAD is just opened, the file comparison pop-up window cannot be opened by clicking the Application-File Compare button in zero document mode                                                                                                                                     |
| display: When the object is zoomed in to a certain scale, the highlighted display effect of the selected entity is incorrect and the entity still exists after being deleted.                                                                                                                              |
| [Regression test] [Quality reinforcement] layer/mview/undo: When the layer manager is open, maximize the viewport and execute the command undo. The undo command is layer                                                                                                                                  |
| pastespec: The ole object obtained by selective pasting cannot be edited by double-clicking                                                                                                                                                                                                                |
| During installation or uninstallation using the installation package, if you view the installation help or version features page and then close it, and hover over the small window on the taskbar, the installation help and version features will reappear, and disappear after you move away from them. |
| [Regression test] [Named customer] eattext: Some titles on the fourth page of the attribute extraction dialog box are not displayed after clicking                                                                                                                                                         |
| 3DORBIT: When zooming the view during dynamic observation, the coordinate system gradually disappears after zooming to a certain extent.                                                                                                                                                                   |
| layout: The right-click menu can rename the layout name to "model"                                                                                                                                                                                                                                         |
| [Regression test] [Named customer] open: Attached drawing 2322894 (1).dwg opening efficiency is very low                                                                                                                                                                                                   |
| [Regression Test] [Named Customer] text: The cursor position is incorrect when deleting a single line of text in the attached drawing                                                                                                                                                                      |
| [Regression test] [ZWSOFT customer] fcmp: Attribute definitions and other entities are put into attribute blocks, and the text in the attribute block cannot be hidden                                                                                                                                     |
| [Regression test] [Named customer] plot: The efficiency and file size of drawings with PDF basemaps printed to PDF are not as good as ACAD                                                                                                                                                                 |
| [Regression test] [Internal feedback] table/datlink: After modifying the data link range via the table command, the preview and created table are not updated                                                                                                                                              |
| DISPLAY: Cursor display error after activating viewport in attachment drawing layout space                                                                                                                                                                                                                 |
| [Regression test] [Internal feedback] Preview: The preview window cancels full screen and shrinks to the edge of the screen, and a large area of black appears in the preview                                                                                                                              |
| pointcloudattach\display: Switch to layout space after attaching point cloud, create multiple viewports, viewport lines are not displayed after zoom-e                                                                                                                                                     |

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| [Regression test] [Named customer] zwplot: Smart printing of multiple pages prints page number errors                                                                                                                   |
| [Regression test][Internal issue] lookup: When operating on a locked entity, the command line prompt has grammatical errors                                                                                             |
| [Others] mtext/undo: The undo effect of adding a tab character to multi-line text is incorrect                                                                                                                          |
| [Regression test] [Internal feedback] text/field: Clicking on the blank space before a field with 1 character does not work correctly                                                                                   |
| list\close: Open the list text window, close all drawings, the text window does not close automatically                                                                                                                 |
| publishraster/zwplot: Quick pan and zoom during print preview causes the preview content to shift                                                                                                                       |
| [Regression test] [Internal feedback] mtext: When editing stacked text with underscores and underscores, extra dots are displayed                                                                                       |
| [Regression test] [Internal feedback] mtext: When adjusting the width of the multi-line text edit box to a certain position, the background mask display effect is incorrect                                            |
| [Regression test] [Internal feedback] mview: After selecting the rectangular viewport first and then the polygonal viewport and right-clicking, there is no "Viewport Clipping" or "Show Viewport Objects" in the menu. |
| [Trunk Test] Lasso selection: The efficiency of lasso selection in the attachment drawing window is slow                                                                                                                |
| REFEDIT: Checking the "Show edited attribute definitions" option has no effect                                                                                                                                          |
| table\dim: When editing cells and annotations, the "Paragraph" button on the text in-place editor is not grayed out                                                                                                     |
| [Regression test] [Internal issue] view/osnap/dynamic annotation: In 3D view, dynamic annotation often shifts when snapping                                                                                             |
| close: Cleaning the temp directory when ZWCAD is open will cause ZWCAD to fail to close                                                                                                                                 |
| xclip: The attached drawing clips the block reference, and the clipping effect is incorrect                                                                                                                             |
| [Quality Improvement] table: When editing a cell, you can modify the text alignment style through the multi-line text editor                                                                                            |
| [Trunk test] filed: When the field is together with other text, dragging and selecting cannot select other text separately                                                                                              |
| Dynamic Input: On a 4K screen, the background fill blue size and text size of the dynamic input prompt box are small.                                                                                                   |
| refedit/xattach: Use the xattach command to attach an attachment drawing. Double-click to open the external reference dialog box. There are settings that are not grayed out.                                           |
| ZRX: AcGiVisualStyle default constructor does not set mpZcGimpVisualStyle to a non-NULL value                                                                                                                           |
| [Trunk Test] shademode: The effect is wrong when changing the visual style to hidden in the maximized viewport                                                                                                          |
| Plot: When selecting the print area for the attached drawing, the background color changes when scaling the drawing                                                                                                     |
| -insert/undo: After redefining a block reference, the undo effect is incorrect                                                                                                                                          |
| ZRX: The two-parameter form of the AcDbRegion::getPlane interface is not implemented, resulting in incorrect Region selection and hover effects                                                                         |

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| layout/viewport: Using Ctrl+PageDown/PageUp to switch the model/layout document name does not show the modification mark                                                                                                 |
| 3DORBIT: "acis.dwg" enters dynamic observation state, and ZWCAD efficiency decreases                                                                                                                                     |
| xclip\block\text: In model space, in multiple viewports, make the text into blocks and then cut them, change the visual style to hidden, and the block will not be displayed                                             |
| [Regression test] attdef: After making a multi-line attribute definition into an annotated block far from the origin, the editing process will be out of place                                                           |
| ddedit: When editing text in attached drawings, the cursor is in the middle of the text instead of in the gap between the texts                                                                                          |
| PDFIMPORT: When executing the pdfimport command to import the attached PDF, the text appears crowded.                                                                                                                    |
| shademode/layout: When the visual styles of the model space and layout viewports are inconsistent, the visual style of the viewport opened in the competitor is displayed incorrectly                                    |
| [Regression test] [RC test] Test Pdfattach/osnap: Drawing a straight line in the PDF base map does not capture the vertical foot                                                                                         |
| display: The attached drawing "prueba.dxf" is opened and displayed incorrectly                                                                                                                                           |
| CWE-762: Mismatched Memory Management Routines                                                                                                                                                                           |
| CWE-398: Code Quality                                                                                                                                                                                                    |
| CWE-457: Use of Uninitialized Variable                                                                                                                                                                                   |
| lengthen: The effect is not beautiful enough when selecting to execute DY branch to adjust the entity                                                                                                                    |
| swr_ArchCore.zrx: After loading the Swell module, the command line is displayed incorrectly when executing the -hatch command branch                                                                                     |
| Lasso selection: During lasso selection, the bounding box of the entity will flash                                                                                                                                       |
| HELP: The screenshots and descriptions of the "Installation Help" screen in the Spanish installer are incorrect                                                                                                          |
| [Confirmation test] ifcstructurepanelupdate: When importing a large ifc file, an error message appears after executing ifcstructurepanelupdate multiple times, and ZWCAD crashes after switching drawings back and forth |
| [Trunk Test] 3DOrbit: Occasionally jitter may occur when using 3DOrbit on extremely large coordinate drawings                                                                                                            |
| taskbar\preview: When taskbar is set to 1, some preview contents will not be displayed after multiple document interactions.                                                                                             |
| zwLauncher: When the system has multiple accounts, ZWCAD is started in one account, but the drawing cannot be started by double-clicking DWG in another account, but is opened in the other account                      |
| [Special package test] -hatchedit: directly enter the keyword R after executing the command, and there will be no prompt on the command line                                                                             |
| layout: The attached drawing "LT-3.01 Standard Water Supply and Drainage Detail.dwg" has a lag when switching layout                                                                                                     |
| Properties: The default properties panel in German shows that when the cursor is placed in the "Object" area, the original object text becomes an abbreviation with ellipsis.                                            |
| HELP: In the help document, an extra magnifying glass icon is displayed in the "Index" tab                                                                                                                               |
| dim: After deleting the association annotation, the association can still be found in dbg                                                                                                                                |

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| select: When the cursor color is set to non-white (non-rubber line color), the rubber line color is not uniform when lasso selecting                                                                                           |
| Hatch: Cannot create hatch in closed areas in attached drawings                                                                                                                                                                |
| dimedit: Rotating the annotation text of a three-point angle annotation does not work correctly                                                                                                                                |
| [Trunk test] text: Modify the escape symbol of text in the attached drawing to an overline, the overline display position is incorrect                                                                                         |
| mtext: Add a strikethrough to the tab content, which causes incorrect display                                                                                                                                                  |
| display: OLE objects in attached drawings are not displayed under 3D wireframe                                                                                                                                                 |
| open: ZWCAD crashes when opening the drawing "ZWCAD2022 Vulnerability POC.dwg" again                                                                                                                                           |
| xref\linetype\saveas: The linetype of an external reference with a special linetype is displayed incorrectly after saving                                                                                                      |
| BATTMAN: Attached execution of battman switch dialog tab page, the property block movement within the group                                                                                                                    |
| xattach/layer: When a nested Xref in an attached Xref drawing is changed, the layer name of the original nested Xref is still displayed after attachment                                                                       |
| ViewTools: Restore viewport configuration error when no viewport configuration is done.                                                                                                                                        |
| dimeassociate/dimjogged: The associative mark of the bend annotation is in the wrong position                                                                                                                                  |
| shademode: "Polished Glue.dwg" When switching the visual style to any 3D visual style, ZWCAD did not respond and the switching was completed after about 4 minutes.                                                            |
| dim/undo: The undo effect is incorrect after modifying the dimension line in the property bar                                                                                                                                  |
| select: Incorrect selection after modifying custom attributes                                                                                                                                                                  |
| Dview: When drawing a 3D entity preview, in the parallel view, a black frame flashes when switching the preset view through the view control menu in the upper left corner.                                                    |
| Perspective view: When you want to switch the current view to perspective view through the view control menu, the current coordinate system can be switched to 3D at the same time.                                            |
| xref/properties: After detaching an attached image, the properties panel still shows the status of the selected raster image                                                                                                   |
| xref: In the external reference panel, after selecting the base map, click Save Path to enter the editing mode, then click the External Reference Panel to cancel the base map selection, and the Save Path will not disappear |
| Sheetset: Sheet set properties dialog box appears blank on 4k screens                                                                                                                                                          |
| xref: When attaching a basemap without a path, first change the basemap path to an absolute path, then press Ctrl+Z to undo the operation, and then set it to an absolute path again, the basemap is lost                      |
| attach: No back button in attach basemap dialog                                                                                                                                                                                |
| Dynamic Input: When the cursor moves outside the drawing area below, the dynamic input box remains displayed                                                                                                                   |
| filedia/dynmode/open: Set filedia=0, dynmode=3, execute the open command, enter any character in the command line, and the property bar displays abnormally                                                                    |
| -insert: After entering the drawing path, press ESC and the value of insname will be modified.                                                                                                                                 |

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| -insert: Open the attached drawing, enter the drawing path to insert the drawing with the same name as the internal block, the effect is incorrect                                                                                     |
| stretch\efficiency: The efficiency of the attached drawing test_pline100W.dwg stretching from the first point to the second point of the selected 100w entity object is significantly reduced compared with ZWCAD2023 SP2 under Linux. |
| ZRX: Calling AcDbLayerStateManager::getLastRestoredLayerState results in an error                                                                                                                                                      |
| display: Transparency of raster images has no effect in 3D Wireframe and Shaded visual styles                                                                                                                                          |
| display: Intel UHD 730 graphics card has low line width display efficiency                                                                                                                                                             |
| imageclip: attachment drawing, inverted clipping boundaries, raster images not displayed correctly                                                                                                                                     |
| circle_lweight_girpedit: selectioneffect=1, after adjusting the radius of the circle by stretching the grip inwards, a blue line remains in the drawing area.                                                                          |
| 3D\DISPLAY: When a 3D entity is in shaded mode, extra lines will be displayed on the edges.                                                                                                                                            |
| Lasso selection: In 3D wireframe, the overlapping area formed by lasso selection is not hollowed out.                                                                                                                                  |
| LINESMOOTHING/display: Turn on display line width when smooth line display is turned on, and the entity is displayed rough without smoothing effect                                                                                    |
| sweep: The sweep result of the attached drawing is offset                                                                                                                                                                              |
| dyninput: When polar tracking and dynamic input are on, move on the polar tracking line to switch between the two prompts.                                                                                                             |
| HARDWAREACCELERATION/mtext: Turn on hardware acceleration, and the slider on the text edit box ruler becomes lighter                                                                                                                   |
| array\sectionplane: Selecting a section object to create an array does not work correctly                                                                                                                                              |
| mtedit\find: In a multi-line text edit box, when you open the "Find and Replace" dialog box by pressing ctrl+r, the check box is not fully displayed                                                                                   |
| Hatch: Turn off the hardware acceleration switch, and the spherical gradient fill will display extra lines                                                                                                                             |
| Attached drawing: 0322 Yuanyang Tiancheng pile numbering diagram (1). After zoom-e, the dwg has extra lines. After regen, the graphics are restored to display                                                                         |
| OPEN\SAVEAS: Attachment drawing: Section B construction general layout drawing version 0401.dwg is saved as DXF2010 format in ZWCAD, but no response when opened in ACAD                                                               |
| mtext: Drag the edit box to narrow its width, and the first line indent is invalid                                                                                                                                                     |
| mtext: When editing attached drawings, delete any text and the cursor moves                                                                                                                                                            |
| StatusBar: When the software border is pulled narrower, the status bar icons overlap                                                                                                                                                   |
| UI: "By Layer" of "Line Type" and "Line Width" on the property panel is not aligned                                                                                                                                                    |
| [Main Test] mtext: On a normal display (1920*1080), when multiple lines of text are selected and you click "Define Height" in the property bar, the property bar does not display properly.                                            |
| [Merge test] display: Select the path array in the attached drawing, and the triangular grip points on the path will be displayed under the path                                                                                       |
| [Trunk Test] IMAGEATTACH/XATTACH: When attaching an image file or attaching a DWG reference, the attachment can still be completed by entering 0 or a negative number when specifying the scale factor on the screen.                  |

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| [Integration Test] QUICKCALC: After the 3dorbit command is entered in the command line, the cursor moves to any position on the computer panel, and a cursor that can be stretched left and right will appear                                            |
| [Integration Test] REGENMODE: When regenmode=0, a dialog box will pop up asking whether to regenerate when switching views in the ribbon view menu or executing the -VIEW command to switch views.                                                       |
| [Integration test] ellipse/osnap: It is very difficult to capture the ellipse extension line in the attached drawing                                                                                                                                     |
| [Open and Save] OPEN: Attached drawing: 200-0.2.dwg is not responding when opened in ZWCAD                                                                                                                                                               |
| [Backbone Test] xclip: After clipping the attribute block, the edges of the text will become rough                                                                                                                                                       |
| [Integration Test] text: When a single-line text containing escape characters is created using pictographic characters and the alignment is set to right, the cursor position is incorrect during editing                                                |
| [Integration Test] dyninput: In the block editor, after turning on dynamic input, select a linear parameter and execute the right-click menu object visibility operation, and the cursor flashes twice                                                   |
| [Merge test] spline: Switch to the control point, click the "Add Vertex" in the grip menu of the control points on both sides, and no vertex is added at some angles                                                                                     |
| [Trunk test] 3dorbit: After turning on the grid, use dynamic viewing to rotate the view until you can see the bottom surface of the 3D entity. At this time, the grid on the bottom surface of the entity is not displayed                               |
| [Merge test] hatch: The fill area contains an elliptical arc. When the pick point selects the concave surface of the elliptical arc, it prompts "No valid boundary found"                                                                                |
| [Integration Test] xref: After reloading the external reference drawing with absolute path nesting, the external reference panel does not display the drawing information                                                                                |
| [Integration Test] MTEXT: Switch the visual style to 3D, switch the predefined view to Southwest Isometric, the ruler is not displayed correctly in the text edit box, and the text is not displayed correctly if a background mask is added to the text |
| [Integration Test] TEXT: In the text edit box, after zooming in with the mouse wheel, you cannot zoom out and restore                                                                                                                                    |
| [Integration test] TEXT: Attached drawing: 81.dwg When double-clicking the text to edit, after entering %, the text runs out of the edit box and the cursor presses the text                                                                             |
| [Integration test] dimbreak: When the dimension is interrupted, the interruption effect is incorrect when the interruption point is close to the starting point of the dimension boundary.                                                               |
| [Integration Test] dgnattach\xref: When you click "Select New Path..." on the External Reference panel, the "All DGN Files (*.*)" format is missing in the pop-up dialog box                                                                             |
| [Trunk Test] 3D\DISPLAY: When editing the edges of a 3D entity for copying and coloring, the display effect is degraded compared to ZWCAD2023SP2 when selecting the edge.                                                                                |
| [Trunk test] purge: When cleaning the layer, the layer referenced by the proxy entity should not be deleted                                                                                                                                              |

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| [Open and Save] OPEN\SAVE\DXF: When saving the attached drawing as DXF2000 format, the progress bar always shows zero. You can perform other operations on the drawing during the saving process.                                                                                                           |
| [Integration Test] dimspace: When selecting linear and coordinate dimensions based on linear dimensions and executing dimspace, the final selection result is incorrect                                                                                                                                     |
| [Integration test] text: The Thai text in the attached drawing B-04.54.dwg is highlighted incorrectly after selection                                                                                                                                                                                       |
| [Integration test] mtext/paragraph break: After inserting a column break in a dynamic column, save the drawing as dxf2000 and then open it, and you will find that the text becomes undivided                                                                                                               |
| [Main Test] CIRCLE: When a circle cannot be drawn using the tangent-tangent-tangent method, there is no error-tolerance prompt in the command line                                                                                                                                                          |
| [Integration test] imageattach: When inserting a picture, select a different picture and the insertion ratio is not updated                                                                                                                                                                                 |
| [Regression test] [Key customers] Hatch/area: hatch area calculation accuracy decreases under large coordinates                                                                                                                                                                                             |
| [Regression Test] HELP: When opening the German and English versions of ZWCAD at the same time, open the English version of the help document first, then open the German version of the help document. At this time, the German help document cannot be opened and the English version is still displayed. |
| mleader: Multileaders created in ACAD are displayed misplaced and disconnected in ZWCAD                                                                                                                                                                                                                     |
| [Regression Test] [Named Customer] xattach\xref: The "Replace Block Name" dialog box is not fully displayed                                                                                                                                                                                                 |
| [Regression Test] XREF: When the external reference panel is moved to the left edge or the top edge, the border that has been displayed on the edge will not disappear after it is moved to other positions                                                                                                 |
| [Unit Test] zrx\getBuffer: When calling the getBuffer interface on an empty AcString and trying to assign a value to the returned pointer address, the program will generate an exception                                                                                                                   |
| [Regression test] mirrtext/Dynamic Block: When the setting value is 1, the text is not flipped when using the mirror flip grip of the dynamic block grip                                                                                                                                                    |
| shademode: The dimension arrow is displayed as hollow under the hidden visual style                                                                                                                                                                                                                         |
| [Regression Test] [Named Customer] xref/refedit: When editing an attached external reference drawing in place without saving, redundant graphics will be displayed                                                                                                                                          |
| Help: Click the "Help" button in the dialog box, and a line of code will flash when the help document is opened.                                                                                                                                                                                            |
| [Efficiency test] zoom/pline: Attached 2020.dwg topographic map, turn on hardware acceleration box and select pline to display a large number of grip points. The efficiency of panning and zooming is low.                                                                                                 |
| [Memory Leak] properties/open/saveas: When the properties bar is turned on, there is a 11328-byte memory leak when opening the attached drawing and saving it in dwg2013 format and then closing ZWCAD                                                                                                      |
| [Backbone Test] display/linetype: After hardware acceleration is turned on, discontinuous line types are not displayed correctly when scaling.                                                                                                                                                              |
| [Trunk Test] pline: Display error when hovering the polyline grip in the attached drawing                                                                                                                                                                                                                   |

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| xclip: Setting the "clip depth" for external references or block references does not display the clip depth correctly                                                                                                                                                                                                     |
| [Regression test] FILLET: The command line prompt "Current setting" mode is displayed as TRIM or NOTRIM, change it to Chinese in Unified                                                                                                                                                                                  |
| [Open Save] [Compatibility Test] saveas: No response when saving the attached drawing "CREmail_Drawing_853.dwg" as R14 format                                                                                                                                                                                             |
| [Regression test][Internal feedback] Hatch: Attachment drawings cannot be filled correctly after zooming out                                                                                                                                                                                                              |
| [Regression test] dimreassociate/lastpoint: Executing the dimreassociate command will modify the value of lastpoint in the drawing                                                                                                                                                                                        |
| [Regression test] plot: modify the line type in the print style sheet, the print preview and pdf file results are incorrect                                                                                                                                                                                               |
| [Trunk test] osnap\pointcloud: Capture point cloud in perspective view, capture point movement                                                                                                                                                                                                                            |
| [Quality Improvement] ellipse: Draw overlapping elliptical arcs, which cannot overlap completely                                                                                                                                                                                                                          |
| [Regression test] annotative/attdef: Annotative attribute definitions created by ZWCAD will become smaller when edited in ACAD                                                                                                                                                                                            |
| [Merge test] pan/spline: When you select a spline curve with control points and zoom in to the point where only the control lines are visible, the program becomes unresponsive when you pan.                                                                                                                             |
| [Quality Improvement] RefEdit: When editing the external reference of the attached drawing, ZWCAD does not respond                                                                                                                                                                                                        |
| [Quality Improvement] HATCH: Attachment drawing: Fill incorrectly.dwg, pick points in ZWCAD and ACAD respectively, ZWCAD cannot find valid boundaries in some areas, ACAD can identify any point                                                                                                                          |
| [Regression test] saveas: The visual style of the attached drawing saved as dwg2007 version will become flat shading                                                                                                                                                                                                      |
| [Backbone Test] pline: When drawing a polyline, if an invalid arc angle is entered through dynamic input, the arc is drawn incorrectly                                                                                                                                                                                    |
| [Regression test] table/shademode: In some 3D visual styles, the table row and column indicators lack row and column separators and the text is blurred                                                                                                                                                                   |
| [Quality Improvement] pointcloudcrop: Turn on the grid, cancel all crops on the point cloud and then create a crop. The grid will be brighter during the crop creation process                                                                                                                                            |
| [Regression test] [Special screen test] blockbreak/4k: When executing blockbreak, the "Insert Block" button in the pop-up block break dialog box is not high enough                                                                                                                                                       |
| [Regression test] select/trim: After executing the trim command, the selected entity will always remain highlighted after the previous selection set is selected through the P branch during the select operation and the selected entity will always remain highlighted after the ESC is pressed to cancel the selection |
| visualstyles/UCSICON: UCSICON display in 2D and 3D visual styles should be distinguished                                                                                                                                                                                                                                  |
| [Regression Test] [Not Covered] Status Bar: When you close ZWCAD with "Use Large Buttons for Toolbars" checked, and then restart ZWCAD and uncheck "Use Large Buttons for Toolbars", the transparency button and millimeter precision icon on the status bar are displayed incorrectly                                    |
| [Regression test] [Not covered] text: When single-line text with subscripts and subscripts created with escape characters is copied and pasted into multi-line text, the subscripts are displayed incorrectly                                                                                                             |

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| [Regression test] [Not covered] mtedit: When editing multi-line text with escape characters, the text is misplaced                                                                                                                                                 |
| [Main test] launch: In some dual-graphics card environments, launching ZWCAD does not automatically use the high-profile graphics card                                                                                                                             |
| [Regression test] 3dsolid: In the shaded visual style, some edges of the attached 3D solid that should be hidden are displayed on the solid surface                                                                                                                |
| [Quality Improvement] 3dorbit: When there are rays and construction lines in the drawing, select other entities to perform 3dorbit, and the rays and construction lines will still be displayed                                                                    |
| [Confirmation Test] DISPLAY: Text is not displayed correctly in 3D wireframe mode                                                                                                                                                                                  |
| [Confirmation test] toolpalettes/flexiblock/dynblock: After double-clicking a dynamic block/flexiblock in the tool palette and inserting it into a drawing, the previously inserted dynamic block/flexiblock with the same block definition becomes a normal block |
| LWEIGHT: "Line Width Settings" dialog box, "Adjust Display Scale" border is blocked by the slider                                                                                                                                                                  |
| SAVEAS: Some contents of the "Save As Options" dialog box are not fully displayed                                                                                                                                                                                  |
| QLEADER/PUBLISH/PLOT/PLTPLOT: Adjust the position of the value setting button                                                                                                                                                                                      |
| [Merge test] flexiblock/copyclip: After pasting a dynamic block into another drawing with a variable block of the same name, the light blue grip is lost                                                                                                           |
| [Merge test] pointcloud: Slow conversion efficiency of large pts files                                                                                                                                                                                             |
| [RC Test] 4K: On a 4K screen, the rotating axis ball of the 3D dynamic observation is not adapted and appears very small                                                                                                                                           |
| [Efficiency test] copy: The copy efficiency of the attached drawing "hatch_with annotative pattern fill _5w.dwg" has decreased                                                                                                                                     |
| hatch: Modify the origin of the fill in the property bar, and the pattern in the drawing area will not change                                                                                                                                                      |
| [Efficiency test] pcx/open/zoom: The drawing contains pcx format images, and opening the drawing, panning and zooming, and editing operations are very slow.                                                                                                       |
| [Installation package test] install/EDU: The organizational structure of the start menu is unreasonable after the ZWCAD education version is installed                                                                                                             |
| [Automatic repair problem verification] PLOT: The attached DWG drawing printing effect is inconsistent with the display                                                                                                                                            |
| [Trunk Test] pdfimport: After importing the attached drawing and printing out the pdf, there are extra lines displayed                                                                                                                                             |
| [Special package test] Attached drawing: Some block objects in 1505534.0007a.dwg cannot obtain the layer                                                                                                                                                           |
| [Trunk test] areaable: free drawing of areaable under UCS, the first point moves                                                                                                                                                                                   |
| xref: After modifying the external reference in other applications and saving, switching to zwcad, there is no pop-up prompt in the lower right corner that requires reloading                                                                                     |
| [Trunk test] zoom/pan: When hardware acceleration is turned on, the software becomes unresponsive after opening a drawing and zooming, and the task manager is required to force quit                                                                              |
| [Backbone Test] Battman: In the Block Attribute Manager, the "Lock" attribute flag is not displayed in the Mode column.                                                                                                                                            |
| [Open and Save] open: Memory usage is too high when opening the attached drawing in ZWCAD                                                                                                                                                                          |
| Recover: Cannot correctly repair sick drawings and drawings with lots of sick data will be stuck                                                                                                                                                                   |

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| [Internal Feedback] Battman: When modifying the properties of a dynamic block in the attached drawing, only one block has the modification applied                                                                                                                                      |
| [Internal feedback] insert: After inserting a block in the attached drawing, undo the insertion, the result is incorrect                                                                                                                                                                |
| DISPLAY: In the attached drawing (including 1e+13 coordinates), the selected entity cannot be highlighted, and pressing esc cannot cancel the selection display                                                                                                                         |
| array: activates the grip of the associative array, without dynamically displaying the grip parameter information                                                                                                                                                                       |
| array: After the associative array activates the grip point, the grip point prompt information in the drawing area is unreasonable                                                                                                                                                      |
| arrayedit: When replacing items in an associative array, only the hovered array item should be highlighted                                                                                                                                                                              |
| -array: The "rectangle" branch command line prompt information is unreasonable                                                                                                                                                                                                          |
| array/units: Associative array attribute data values do not match the "data precision" displayed on the "ribbon panel" and "command line"                                                                                                                                               |
| arrayedit: Branches of replacing items in the edit array function, command line prompts are not friendly                                                                                                                                                                                |
| arrayedit: After replacing an item using the "Replace" branch, Enter cannot return to the Arrayedit main process                                                                                                                                                                        |
| [Open and Save] open: ZWCAD crashes when opening the attached drawing "Solar Frame Preform Drawing 0224(1).dwg"                                                                                                                                                                         |
| ZRX/intersectWith: Incorrect intersection result between line and multi-line projection                                                                                                                                                                                                 |
| [Trunk Test] pointcloud: After copying a point cloud with a relative path across documents, the point cloud is unloaded when saving and reopening the drawing                                                                                                                           |
| [Update Test] arraypath: Attachment drawing: Change UCS.dwg to enter the ALL keyword when selecting the path curve, and the array drawing direction is inconsistent with the competitor's product                                                                                       |
| ZRX\Brep: AcBrFace::getSubentPath interface effect error                                                                                                                                                                                                                                |
| [Project Preparation] mtext: When editing text, select part of the text and right-click, the cursor position is wrong                                                                                                                                                                   |
| [Acceptance test] selectioncycling/group: gripobjectlimits=20000, selectioncycling=2, when unhighlighting a grouped object with a large number of entities, if the cycle selection box exists, ZWCAD will lose response for a long time during the unhighlighting process of the group. |
| [Acceptance test] open: The text display colors of solid fill structures with the same characteristics in the layout viewport of the attached drawing are inconsistent                                                                                                                  |
| [Special package test] xref/xattach: attaching drawings with building blocks, there are extra command line prompts                                                                                                                                                                      |
| [Update version test] display/hatch: The fill color in the attached drawing of the 4K screen is not displayed correctly in the layout space                                                                                                                                             |
| [Project Preparation] mtext: In multi-line text, first enter 2 tab keys, then enter the enter key, then enter the shift+enter key to enter the text, text editing and display movement                                                                                                  |
| After switching workspaces, opening a second ZWCAD workspace is inconsistent with the actual situation                                                                                                                                                                                  |
| field/layout: Field display is poor in isometric view in layout space shading mode                                                                                                                                                                                                      |
| zwplot: Non-standard frame settings in attached drawings are printed on the same drawing sheet, and the border is incomplete                                                                                                                                                            |

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| [Background Test] Display: After setting the background color, the background color does not change when modifying the visual style in the property bar                                                          |
| xattach: Attaching an attachment drawing as an external reference to a drawing is less efficient                                                                                                                 |
| open: The attached drawing "Ningbo Factory Equipment Layout (First Edition).dwg" is open for a long time without response                                                                                        |
| sheetset: When there is a cross-reference between a model view and a sheet set, a crash occurs when opening a model view sheet repeatedly                                                                        |
| [Open and Save] open: The attached drawing "Ningbo Factory Equipment Layout (First Edition).dwg" is opened inefficiently in ZWCAD                                                                                |
| arc: When hardware acceleration is turned on, the attached drawing arc is drawn one more section                                                                                                                 |
| [Integration test] Hatch: After the fill in the attachment "Urbana Drawing_Final LATEST TOILET PLUMBING.dwg" is enlarged multiple times and regen is executed, extra black lines are displayed                   |
| [Merge test] dimbreak: cannot break arc polylines that pass through arc length annotations                                                                                                                       |
| [Integration test] open/layout: The attached drawing has a lot of fills, and it is very slow to switch from layout to model space after opening it. It is also very slow to open the drawing for the second time |
| [Merge test] OLE: ZWCAD will get stuck after enlarging the table ole                                                                                                                                             |
| [Merge test] Lisp\vla-Save: When the viewport is maximized, the effect of saving drawings using the lisp com interface is wrong                                                                                  |
| [Merge test] display: After changing the unified background color of 3D parallel projection, switching to 2D visual style and then undoing the effect is incorrect                                               |
| [Merge test] pointcloudattach: Attaching a point cloud with "Partial scan not found or invalid" does not show this message when attaching for the second time                                                    |
| [Merge test] spell/mtxt: For single dot content, the spell check red line appears incorrectly                                                                                                                    |
| [Internal Feedback] pline: When executing arc A and direction D branches in sequence and specifying the starting point tangent direction, the arc preview appears incorrectly                                    |
| [Update version test] solid: Self-intersecting solids are not displayed correctly in the volume shading visual style                                                                                             |
| [Merge test] regen/block: After the dynamic block in the attached drawing switches the attribute value through the query grip multiple times, the regen refresh is very slow                                     |
| [Integration test] zwplot: When printing multiple documents with attached drawings, the same drawing size is set, and the printout results are not printed with the same drawing size                            |
| Sheetset/field: The sheetset field inserted in the table failed to update synchronously after regen                                                                                                              |
| [Merge test] objectscale/cannoscale: Add annotative scale to an annotative entity, copy and paste it to a new drawing, and the newly added annotative scale cannot be set as the current                         |
| [Merge test] dynblock/ucs: Open the attached drawing, and the scale lines of the dynamic block are out of position at certain angles                                                                             |
| [Internal feedback] ZRX_acedgetstring: When a long string is entered without the last parameter specifying the character length, the program crashes                                                             |

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| license: When the regional language is Thai, after the trial stand-alone license is activated, the startup version is still the trial version                                                                           |
| [Merge test] trim/spline: Using the fill pattern line as the boundary, the trimming effect of the spline curve is wrong                                                                                                 |
| [Regression test] 4k/Ribbon: The text editor column icons are not displayed correctly on 4k monitors                                                                                                                    |
| [Regression test] shademode/imageclip: Inverted clipped raster images in 3D visual style show extra lines on the edges                                                                                                  |
| [Regression test] [Named customer] text: After turning on hardware acceleration, the Thai text in the attached drawing displays extra black lines when opened                                                           |
| [Regression test] [Named customer] Hatch: Boundary error when creating fill in attachment drawing                                                                                                                       |
| [Merge test] CrashReport: When ZWCAD crashes, the CR generated will fail to be sent if it is larger than 50M                                                                                                            |
| POINTCLOUDATTACH: After attaching a point cloud, the graphics window background of "3D Wireframe" does not switch automatically                                                                                         |
| [Internal Feedback] open: The attached drawing 956-009 014.dwg is not responding when opened                                                                                                                            |
| [Merge test] image/shademode: The border of raster images is not displayed completely in the shaded visual style                                                                                                        |
| [Regression test] [Other issues] Hatch/line: Fills with a large number of lines display poorly after scaling                                                                                                            |
| area\3dpoly: After the 3D polyline is set to the fitting state, after executing queries such as area\list and then switching to other states, the entity is not displayed                                               |
| [Merge test] plot: When using pcl\svg\postscript printer to print Fangsong_GB2312 font, some closed areas of text are displayed as solid fill                                                                           |
| [Merge test] linetype/toolbar: After loading an extra-long linetype, when trying to switch it in the toolbar, a dialog box pops up saying "Encountered improper argument."                                              |
| [Merge test] getsel/layer: Execute the getsel command, select entities on the layer with a very long name to create a selection set, and the command line prompts garbled characters                                    |
| Recover: After the repaired drawing is opened, it still prompts that it needs to be repaired                                                                                                                            |
| [Internal Feedback] circle/tan: Create a circle with two points. When specifying the second point, perform tangent point capture instead. If you capture the wrong point, a circle with a radius of 0 will be created.  |
| [Regression test] dynblock: After executing the undo operation, if the stretch parameter is input again with a value smaller than the current size, the dynamic block is displayed incorrectly                          |
| [Merge test] pline/display: Disable hardware acceleration, open the attached drawing and convert the polylines into arcs, zoom in and out of the drawing area, and the polyline color will fill the entire drawing area |
| [Merge test] spline: When drawing any controlled spline curve and the view height and width are close to 0, there will be obvious lag or even software crash when selecting the spline curve                            |
| [Regression test] dynblock: After dragging the grip point of a dynamic block in an attachment drawing, the fill update is not displayed correctly                                                                       |
| [Merge Test] xref: After attaching a nested external reference, the xref panel refresh error occurs when the relative path is changed                                                                                   |

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| [Quality Improvement] mtext: A large amount of multi-line text is constructed under the 3D wireframe, and operations such as zooming and panning of drawings are stuck                                                                                                      |
| [Regression Test] [Named Customer] publish: When publishing, an incorrect dsd file is imported, and the command cannot be exited correctly after a prompt box appears.                                                                                                      |
| [Internal Feedback] [Drawing Test] Hatch: Filling cannot be created in some areas of the attached drawing                                                                                                                                                                   |
| [Merge test] getsel: When executing getsel and directly pressing Enter, you cannot enter the default command branch                                                                                                                                                         |
| [Merge test] trim: In enhanced mode, overlapping closed polylines are selected as trimming boundaries and cannot be trimmed.                                                                                                                                                |
| [Merge test] arc: The arc of the attached drawing will not show the preview in some cases when stretching                                                                                                                                                                   |
| [Merge test] fcmpfirstpath/fcmpsecondpath: When the system variable fcmpfirstpath is set to a long value, the program crashes when the relevant button on its ribbon panel is clicked                                                                                       |
| [Regression test] block/find/hyperlink: Create a hyperlink with a description for a block, execute the find command to search and locate the description, and the program crashes                                                                                           |
| image/Hardware acceleration: Under the UHD730 graphics card, with hardware acceleration turned on and smooth line display turned on and off, the raster image displays a distorted screen                                                                                   |
| [Internal feedback] trim: When a document is currently executing any command that selects an object branch, do not exit the command, switch to another document and execute trim-t branch, try to select the child entity of a nested block, and highlight the entire block |
| [Merge test] plot/preview: When previewing the attached drawing, the view is panned and the display is residual                                                                                                                                                             |
| [Beta customer testing] layoff: After closing the layer where the object is located, pressing Esc will cancel the results of the previous operations when entering the next object selection process.                                                                       |
| [Regression test] LINESMOOTHING: When LINESMOOTHING (smooth line display) is set to 1, the preview effect of the moving entity is still the effect before smoothing.                                                                                                        |
| [Fill Display Test] refedit: Editing the attached drawing in place will cause ZWCAD to become unresponsive                                                                                                                                                                  |
| [Regression test] hatch: Unable to create fill inside closed spline curve in attached drawing                                                                                                                                                                               |
| [Filling display test] open: The attached drawing "003-113-2-190708-RE-0(TON).dwg" contains a lot of non-self-intersecting fills, and the opening efficiency is seriously reduced.                                                                                          |
| [Fill Display Test] Hatch: When changing the solid fill in the attached drawing to a gradient fill, the display effect is incorrect                                                                                                                                         |
| copyclip/block: copy some variable blocks containing historical data. The pasted object is not updated with the historical data, resulting in the pasted object being different from the copied object.                                                                     |
| [Fill display test] hatch: In the case of many borders, the fill range is wrong                                                                                                                                                                                             |
| [Fill display test] mirror/hatch: When mirrhatch is 0, the mirror fill is displayed, and the angle displayed in the property bar is incorrect                                                                                                                               |

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| [Fill Display Test] hatch/hpdlgmode: In command line mode and dialog mode, the prompts for filling selected repeated areas are inconsistent                                                                                                                |
| [Fill display test] hatch: True color fill explodes and becomes index color                                                                                                                                                                                |
| [Fill display test] hatch: When stretching a variable block with fill, the fill cannot be associated                                                                                                                                                       |
| [Merge test] publish: The number of drawings in the publishing information after the background publishing is completed is incorrect                                                                                                                       |
| [Fill display test] hatch: Select the text in the attached drawing to create a gradient fill, fill creation error                                                                                                                                          |
| [Merge test] mtext/4k: When anti-aliasing is turned on, there is no anti-aliasing effect on the 4K screen                                                                                                                                                  |
| [Fill Display Test] hatch: fill the attached drawing according to the position shown in the figure, and the prompt "No valid boundary found" appears                                                                                                       |
| [Quality Improvement] layer: When the current layer is a long character, ZWCAD crashes when opening the layer drop-down list in the toolbar.                                                                                                               |
| [Quality Improvement] plot/image: Print preview is incorrect when printing raster images in shaded mode                                                                                                                                                    |
| [Quality Improvement] Hatch: When editing the filled border in the attached drawing, the fill is displayed incorrectly                                                                                                                                     |
| boundary: Only on 4K screens, the problem of creating a closed boundary error occurs when the boundary is fully displayed.                                                                                                                                 |
| [Regression test] imageattach/hardwareacceleration: Turn on hardware acceleration, attach any image, and there will be gaps in the display                                                                                                                 |
| [RC test] copy/move/rotate/mirror/scale/copyclip&pasteclip: When hardware acceleration is turned on, redundant objects are generated after copying/moving/scaling the block reference in the attached drawing                                              |
| [Regression test] mtext/spell: Added Latvian letters to the dictionary, which are displayed as question marks in the dictionary?                                                                                                                           |
| [Efficiency Test] 3d/mesh/zoom: 3D mesh rasterization efficiency decreases                                                                                                                                                                                 |
| [RC Test] plot/dwf: Printing attached drawings to dwf, the printing effect is not good, and the arc segments are misplaced                                                                                                                                 |
| [RC test] plot: The attached drawings are printed in portrait mode, and the fill preview color of some areas is darker                                                                                                                                     |
| [Regression test] copyclip: When copying and pasting a dynamic block from an attached drawing to another attached drawing, the display is incorrect                                                                                                        |
| [Stability Issue Tracking] Hatch: Child thread crashes when using temporary variables during loop filling                                                                                                                                                  |
| [Regression test] Bedit/array: After executing the beedit command on an array, the drawing area does not refresh when the array is selected and the row or column value of the property bar is modified                                                    |
| pointcloudcrop: After cropping the point cloud, the bounding box is not recalculated                                                                                                                                                                       |
| [Installation package test] The Korean (ko-KR) installation package 2024.SP_RC was updated to the release version, and the prompt message for successful update had the wrong language category.                                                           |
| [2023 Classic Version Test] rtdisplay/help: For the display of raster images and PDF reference backgrounds during zoom, the help document describes that it is affected by the value of rtdisplay, which is inconsistent with the actual operation results |

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| [Internal Feedback] pointcloud: In some resolutions, the preview on the Attach Point Cloud dialog box is not displayed correctly                                                                                                          |
| [Stability Issue Tracking] trim: When the number of segments of a polyline exceeds 4000 and there are many surrounding entities, ZWCAD becomes unresponsive when trimming.                                                                |
| Status bar: After opening ZWCAD window, if you quickly move the right side of the interface to display outside the screen and then drag it back to the screen, the status bar icon in the lower right corner disappears.                  |
| [2023 Classic Version Test] ZwJoinPlot: Automatic plotting and importing of opened files is unresponsive, and the plotting ratio is wrong                                                                                                 |
| Toolbar/ui: When you right-click a toolbar and select other toolbars, you can only select them one by one and not multiple at a time.                                                                                                     |
| [Customer feedback] Overkill: After closing the program, the dialog box does not remember the previously checked options                                                                                                                  |
| [2023 Classic Package Test] Display/Hardware Acceleration: Open the attached drawing, turn off hardware acceleration, and run the entity                                                                                                  |
| [Product Training] ATTDEF/BATTMAN: Block attribute manager, the default lock (L) of the defined attribute is not displayed in ZWCAD.                                                                                                      |
| [Regression test] hatch: When creating a fill pattern after zooming out of the attached drawing, there will be a gap                                                                                                                      |
| licensemanager: Want to change the license manager icon in the start menu and taskbar                                                                                                                                                     |
| 3dorbit: The rotation axis during dynamic observation will change with the visual style                                                                                                                                                   |
| [Backbone test] copyclip/block: When copying a dynamic block with attributes and fields, the fields are not updated immediately after pasting                                                                                             |
| [Internal Feedback] pline/block/clip: Blocking and clipping polylines with global widths do not display correctly                                                                                                                         |
| [2023 Classic Version Test] zwplot: After loading all ZRX, previewing multiple drawings shows incorrect prompts                                                                                                                           |
| [Trunk test] blockbreak: In the "Block Break" dialog box, manually enter the block name and click Insert, the inserted block is still the original block                                                                                  |
| [2022 Classic Edition Test] table/field: When hardware acceleration is turned on, the date field in the table displays extra lines                                                                                                        |
| [Regression test] cui: Switch to the classic interface, delete the current workspace, click the option on the toolbar, and the program crashes                                                                                            |
| zwfiber: When the ZwFiber.dll file does not exist, turning on the switch and launching ZWCAD crashes                                                                                                                                      |
| [2022 Classic Edition Test] zwplot: When performing batch printing, the print output option first selects "Print opened drawings", then switches to "Print existing layouts", and the printed file prefix is "same as original file name" |
| [Trunk Test] ddedit: The radius annotation of the attached drawing loses the annotation leader below the text after editing                                                                                                               |
| [Project Test] ZRX: AcDbEntity::intersectWith interface intersection result error                                                                                                                                                         |
| [Regression test] options: In the options dialog box, the two options under "Specify print offset relative to" on the print page are not aligned                                                                                          |
| [Regression test] options/Korean: The target frame size image in the Korean version options is displayed outside the borders                                                                                                              |
| [Efficiency Test] zoom/pan: When zooming and panning the attached drawings, the memory usage is too high, causing a crash                                                                                                                 |

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| [Acceptance test] explode/matchprop/paintprop: explode all entities in the attached drawing, execute the matchprop command, reopen the drawing and execute the paintprop command to generate CR                     |
| [Internal feedback] In the English environment, the ribbon interface has the app+ menu, but the classic interface does not have the app+ menu.                                                                      |
| imageattach/new: The command line prompts for a file name, but the actual path to the file needs to be entered.                                                                                                     |
| Plot: When the text width factor is not 1 and the print scale is extremely small, some strokes are recognized as dots and output as black squares                                                                   |
| [Installation package test] vl-load-reacotrs/help: The relevant introduction of LISP API interface vl-load-reacotrs in the help document is acad_colordlg                                                           |
| 3dface/select: When selecting a 3D face, occluded objects would be incorrectly selected.                                                                                                                            |
| [Internal Feedback] ZRX: After the drawing is automatically saved, the file name obtained by AcDbDatabase::getFilename is incorrect                                                                                 |
| [System Test] Lisp\open: Run VBA macros through lisp commands. The software crashes when the document to be opened does not exist.                                                                                  |
| [Tian Zheng Interpreter] -REFEDIT: The Tian Zheng block object cannot be edited when executing the -REFEDIT command                                                                                                 |
| ZRX: Attached drawing, use acedGetAngle to get two points on the Z axis, the result is not 0                                                                                                                        |
| [Project Acceptance] eattedit: After modifying multi-line attributes with fields, the undo effect is wrong                                                                                                          |
| dynblock/copyclip/pasteclip: After copying and pasting a dynamic block and the corner annotations associated with the block, the annotations cannot be associated when the block is moved                           |
| SFX/JWW: Hope all language versions support SXF&JWW related commands                                                                                                                                                |
| zwjoinplot/zwjoinplotf/zwsizedrive: Hope all language versions support these three commands                                                                                                                         |
| [Stability Special] xref: A sick drawing is attached to the main drawing. When opening the drawing, ZcRxEventReactor::redirected and ZcRxEventReactor::abortAttach are triggered, which will generate wild pointers |
| [Project Acceptance] BESETTINGS instructions need to be edited once before they can be loaded                                                                                                                       |
| ArcGIS: Click the coordinate system button under ArcGIS, and the text and detailed information in the search box in the coordinate system selector pop-up window are a bit incomplete                               |
| [Acceptance Test] layer: Anonymous layers are displayed in the Layer Properties Manager                                                                                                                             |
| MODIFY: When some ribbon panels are collapsed, you cannot directly enter the relevant values after clicking to expand them                                                                                          |
| ZRX: The calculation result of AcGeCircArc3d::length in the attached drawing is incorrect                                                                                                                           |
| 【Customer feedback】 copy/purge: copy the variable blocks in the attached drawing "new block.dwg" to the new drawing, delete the block purge, the variable blocks are items that cannot be purged                    |
| diminspect: Added annotation check for bent annotations with tilted annotation text, the result was wrong                                                                                                           |
| [Acceptance Test] Datalink: Open the attached drawing, execute the Datalink command, select the created data link, and the program crashes                                                                          |

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| [Acceptance Test] arraypath/gripedit: When editing a path array base point via the grip menu, pressing Ctrl to switch to "Move" does not pop up the "Associated Path Array" dialog                                                                  |
| [Acceptance test] array/dim: Annotate an associative array, modify the spacing through the ribbon panel, and the annotation is not updated synchronously                                                                                            |
| [Acceptance Test] Ribbon: Some icons on the quick access toolbar are inconsistent in light and dark styles                                                                                                                                          |
| Ribbon: The About icon display of the bright style Online panel is inconsistent with the dark style                                                                                                                                                 |
| [Acceptance Test] mtext/ribbon: The icon of the cut button on the text editor contextual tab is inconsistent in light and dark styles                                                                                                               |
| [Acceptance Test] Ribbon: The same icon is used for "Open" and "Open Document" on the application menu                                                                                                                                              |
| [Acceptance test] array/minsert: Make multiple insert blocks into an associative array, select the array, and items near the edge of the drawing area are not highlighted                                                                           |
| [Acceptance Test] cui/array: Execute the cui command to make the array creation ribbon panel always displayed. After restarting ZWCAD, the text color on the array creation panel is incorrect                                                      |
| [Acceptance Test] array/ribbon: When creating an array, modifying the array properties through the property bar does not update the ribbon panel synchronously                                                                                      |
| [Trunk Test] Publish: After selecting "Publish to DWFx" as the publishing method and executing the publish, the publishing method is not remembered when executing publish again                                                                    |
| [Trunk Test] zoom/select: After hardware acceleration is turned on, when the drawing is zoomed to a certain extent in the narrow locked viewport, multiple inserted blocks cannot be selected and highlighted normally                              |
| [Acceptance test] arraypath/pointcloud: Create a path array, switch between constant number division and fixed distance division through the property bar and ribbon panel, and the point cloud ribbon panel displays errors                        |
| SELECT/SHADEMODE/DVIEW: When selecting a 3D entity in perspective view shaded mode, the occluded entity was incorrectly selected                                                                                                                    |
| [Acceptance Test] Ribbon: The "Xref" icon on the PDF reference base contextual tab is inconsistent in light and dark styles                                                                                                                         |
| zrx: The spline curve represented by the fitted points does not compare correctly using AcGeNurbCurve3d::isEqualTo                                                                                                                                  |
| [Acceptance Test] Ribbon: When the ribbon panel is collapsed, the ribbon is not updated synchronously when modifying properties through the property bar, etc.                                                                                      |
| [Main Test] arcext: After creating arc text, close the current drawing and create arc text again, ZWCAD crashes                                                                                                                                     |
| [Regression test] RefEdit: When executing the RefEdit command, select "Prompt to select nested objects" in the path, select the locked sub-entity of the nested block, and the temporary graphics generated after exiting RefClose are not deleted. |
| [Acceptance Test] array/group: Groups made of associative arrays cannot edit group grips                                                                                                                                                            |
| [Acceptance Test] arrayedit/block: After replacing the source of an associative array in the block editor, you cannot re-enter the block editor after saving.                                                                                       |
| [Acceptance test] array: The rectangular array grips in the attached drawing show the displacement                                                                                                                                                  |

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| [Acceptance Test] array: Select the associative array in the attached drawing and do not display the grip points                                                                                                                                                    |
| zrx\AcDbPlotSettings::plotTransparency: The transparency of the print settings obtained after saving in the temporary db is incorrect                                                                                                                               |
| [Regression test] ZWCADSP1.2_Test excel content selectively pasted into ZWCAD as CAD primitives, ZWCAD does not respond                                                                                                                                             |
| ZRX:AcGeDwgIO:outFields\AcGeDxfIO:outFields writes AcGeNurbCurve3d data incorrectly                                                                                                                                                                                 |
| Tian Zheng interpreter/trim: When trimming Tian Zheng building walls cannot be successfully trimmed, a new wall will be added to the drawing                                                                                                                        |
| arraypath: Undo does not take effect after the attachment drawing is arrayed, and the program crashes                                                                                                                                                               |
| [Integration test] ZRX: ssget: U mode ctrl or V mode subselection is invalid for mesh                                                                                                                                                                               |
| [Integration test] ZRX/Hardware acceleration/ssget: When hardware acceleration is turned on, the inner edge of the surface of the attachment lofted using ssget's V mode selection in 2D wireframe does not have floating preview and selection highlighting effect |
| [Integration test] pointcloudcolormap: stretch and reduce the width of the "Point Cloud Color Mapping" dialog box, and the two controls for the number of colors will overlap                                                                                       |
| Install: After version 2025, you need to remove the prompt in the installer to select the [Classic]/[Ribbon] interface                                                                                                                                              |
| UI: Expect to add a start page image                                                                                                                                                                                                                                |
| [Open and Save] open/save: Open the attached drawing 2017-05-15_Cuo Li_Cuo Qu Dai Qiao Bian_5.dwg and save it as R12 version, ZWCAD crashes                                                                                                                         |
| savesas: Open the attached drawing 18000-8331-47-111-0101-dwg.dwg and save it as R12 version, ZWCAD does not respond                                                                                                                                                |
| savesas: ZWCAD crashes when opening the attached drawing cremail_drawing_2553.dwg and saving it as R12 DXF version                                                                                                                                                  |
| [Project Preparation] mtext: After changing the font of the superscript text to Songti, the cursor cannot be moved to the inside of the two ^^                                                                                                                      |
| ZWWCLONEPROXYPOLICY: Expect to change the default value of this system variable to 3                                                                                                                                                                                |
| [Project Preparation] text: TEXT command creates single-line text, enters any upper, middle, or lower line (%%O, %%U, %%K), inserts a field, and the field is lost after exiting editing                                                                            |
| [Acceptance test] Highlight; The highlight effect of the 3D surface in the attached drawing is incorrect                                                                                                                                                            |
| savesas: open the attached drawing tecnologia 30.08.dwg and save it as R12 DXF version. The progress is always 0 and a CR file will be generated.                                                                                                                   |
| [Project Preparation] mtext: ZWCAD freezes when inputting c%% in multiple lines of text, select c and drag the mouse behind %%.                                                                                                                                     |
| qselect/SubDMesh: qselect selects mesh entity, object type is wrong                                                                                                                                                                                                 |
| [Architectural Interpreter] Dimaligned: Double-clicking the aligned dimension in the attached drawing: Drawing4_t6.dwg and pressing the ESC key will cause the dimension to be incorrectly calculated, resulting in a display error.                                |
| refedit: "Show edited attribute definition" configuration item is not disabled when editing in place without selecting an attribute definition object                                                                                                               |
| Optimization of workspace related command prompts                                                                                                                                                                                                                   |

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| recover/audit/copyclip: When copying the attachment drawing, it prompts that it cannot be copied to the clipboard. After repair, it still cannot be copied.                                                        |
| [Acceptance Test] Import: Import the input file into a new drawing. Import 3 files in a row. Close the drawing through the right-click menu. ZWCAD crashes.                                                        |
| [Internal Feedback] saveas/qsave: After selecting about 500 polylines in the attached drawing, copying and pasting them, saving the drawing, and then drawing a circle to execute qsave, incremental saving failed |
| [Internal Feedback] open/select: Open the attached drawing and specify the missing font, select the font in the drawing area, and select the single-line text by default                                           |
| Dataextraction/Dataextractionupdate: Attachment drawing, program crashes after updating table using DATAEXTRACTIONUPDATE                                                                                           |
| Lisp\Vls: After executing the xxc function of the Source Toolbox, the generated polyline is not closed                                                                                                             |
| [Acceptance test] 3d/save: 3D drawings imported from "step-103M-40.STEP" failed to save in zwcad in 2004 and below formats                                                                                         |
| Lisp\Vls: When executing the qg function in the Source Toolbox, there is no prompt to move to the specified point and enter the scaling parameters, and sometimes even no block reference is created               |
| LISP\_-hatchedit: (command "-hatchedit" e "o" "u") cannot execute o branch correctly                                                                                                                               |
| Lisp\Vls: Subcommands (hnt\mjb\dxh) of the source toolbox hhsc report an error after filling                                                                                                                       |
| Lisp\Vls: Some entities of the s branch of the source toolbox s1 command cannot be inserted correctly                                                                                                              |
| Lisp\Vls: Some functions of the ersc command in the Source Toolbox are invalid, and the layer where the entity is located cannot be modified                                                                       |
| Lisp\Vls: Source Toolbox sd command function is invalid, can not scale building symbols                                                                                                                            |
| [Internal Feedback] pointcloud: When the scan points have the same name, the scan points are not renamed during point cloud conversion, resulting in incorrect point cloud display                                 |
| Lisp\Vls\grread: When selecting text in the client program, you cannot click the second point to end the selection after clicking the first point                                                                  |
| [Acceptance test] open/3d/dxf: 3D drawings saved as dxf cannot be opened in zwcad                                                                                                                                  |
| zrx\wblockcloneobjects: wblockcloneobjects fails to clone linetypes when linetype table reading in external drawings is turned on                                                                                  |
| plot preview/ole: when the print quality of the ole object is monochrome, the print preview is still in color                                                                                                      |
| about: It is recommended to put the ODA copyright information at the end                                                                                                                                           |
| [Acceptance test] arraypath: create an array of paths at will, and after right-clicking and dragging, the undo operation does not take effect                                                                      |
| ZRX: When calling acedEntSel to select entities, the interaction is likely to get stuck when repeatedly selecting polylines at overlapping positions                                                               |
| [Project Test] mtext/table: The text of the attached drawing exceeds the cell display                                                                                                                              |
| [Project Preparation] text: After editing the single-line text with strikethrough in the attached drawing, the text height changes                                                                                 |
| plot: special symbols appear as question marks when printed to pdf                                                                                                                                                 |

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| [Project Acceptance] mtext: When switching to WYSIWYG option directly after line break, the cursor is positioned incorrectly, and ZWCAD crashes when pressing the front delete key continuously |
| -DIMSTYLE: When the system variable EXPERT is 5, the s branch of -DIMSTYLE will have extra prompts when saving the dimension style with the same name                                           |
| ZRX: There are gaps between adjacent images drawn by AcGiGeometry::image                                                                                                                        |
| ZRX\image: Image cropping effect is displayed incorrectly after popClipBoundary sets the cropping boundary when hardware acceleration is enabled                                                |
| [Project Acceptance] mtext: When the cursor is placed between Arabic text in the attached drawing and the delete key is pressed, ZWCAD does not respond                                         |
| [Internal feedback] pointcloud/pointcloudstylize: When attaching a point cloud with a normal style and switching to the normal style, the style is not displayed correctly                      |
| dwt: Default values for visual styles differ between zwcad.dwt and zwcadiso.dwt template files                                                                                                  |
| [Internal Feedback] pointcloudcolormap: When starting ZWCAD and executing the pointcloudcolormap command, it cannot be recognized normally                                                      |
| [Open and Save] open/saveas: The attached drawing "03. Chizhou Elevation Drawing 8.22.dwg" is saved as dxf format. When opened with a competitor's product, the competitor crashes              |
| pedit: After executing j branch to merge polylines, executing c branch cannot be closed                                                                                                         |
| hatchgenerateboundary: When executing hatchgenerateboundary on the attached drawing, ZWCAD will freeze                                                                                          |
| zwfiber: When opening zwfiber, in the win7SP1 environment, executing the Plot command in the command line, the print dialog box switches to window printing, and the software crashes           |
| ZRXSDK: We hope to align the return values and parameters of commonly used non-documented interfaces with competitors and add function name replacement macros in udocapi.h                     |
| leader_stretch: After moving the leader position, moving multiple lines of text in the leader will cause the leader to return to its original position                                          |
| ZRX: After using AcDbEntity::explode to explode a block reference, the information of the multi-line text obtained after the explosion is incorrect                                             |
| [Automated testing] open/saveas: The scale of annotative objects in the viewport is displayed incorrectly when the attached drawing is opened, and the file is corrupted after saving           |
| [Trunk Test] plot: After background printing is completed, the plot command cannot be executed again, and the "Already processing job" dialog box pops up.                                      |
| Hatch/plot: When opening the attached drawing and executing the plot command to print it to a pdf file, the software crashes                                                                    |
| [Internal feedback] pointcloud: When capturing a point cloud node, the point captured is not the point closest to the cursor                                                                    |
| [Integration test] open/3d: When opening the 3D drawing "ZWCAD Model Test_Coloring_2010.dwg" on a machine with normal configuration, ZWCAD was unresponsive for a long time and finally crashed |
| [Integration Test] array: Select the rectangular array in the attached drawing, and the row and column values in the feature column are displayed as decimals                                   |
| -linetype: When you want to execute the linetype command in command line mode, you can replace the search linetype file acadiso.lin with zwcadiso.lin                                           |

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| [Integration Test] Tooltips: The auto-hide button in the upper left corner of the option panel has no tooltips, which is inconvenient to operate                                           |
| [Integration test] hatch/hatchedit: Select the pattern fill, click the Recreate button, press the ESC key to cancel the command, the command still executes to completion                  |
| ole: Copying and pasting any content from the attached Excel spreadsheet to the ZWCAD drawing area will cause ZWCAD to crash                                                               |
| [Integration Test] PALETTES: After switching workspaces, the palette position will move when the mouse hovers over the floating auto-hidden palette title                                  |
| [Integration Test] pointcloud: Attach the point cloud to the drawing, open the point cloud manager, and the point cloud scan is lost                                                       |
| 4K/175%: At this resolution and zoom ratio, the English version of "Don't show this message again" is not fully displayed.                                                                 |
| [Merge test] field: Replace the field in the drawing with "Linked" and save the drawing failed                                                                                             |
| [Open and Save] open: Opening the attached drawing "LINHAS_OSWALDO.dxf" does not respond for a long time                                                                                   |
| After switching the visibility parameter grip of the dynamic block in the attached drawing, the effect is incorrect                                                                        |
| hplinetype/hatch: After setting the value of hplinetype, the hatch line type in the attachment layout viewport is not updated                                                              |
| ZRX: AcDbEdgeRef construction failed                                                                                                                                                       |
| After enabling perpendicular and tangent point snapping, triggering snapping at special points on the attached drawing will cause the drawing to not operate normally for a period of time |
| [Installation package test] cui\quickproperties: German version, the quick property list in cui has duplicate entity types                                                                 |
| [Basic use case construction] atext/help: There is no introduction to atext in the help document                                                                                           |
| [Backbone Test] pointcloudmanager: attaching point cloud with multiple scans, closing some scans, bounding box not updated                                                                 |
| License: The trial period of the Beta version is extended to 60 days, but the trial dialog box will not pop up during the trial period                                                     |
| [Feedback from ZWCAD User Exchange Group] refedit: When the current layer is modified during in-place editing, the current layer will change after exiting in-place editing                |
| [Update package test] Update: After installing sp1.1, double-clicking the update package for sp1.3, the execution process is incorrect                                                     |
| [Trunk Test] shademode/select: The attached drawing is switched to 3D mode, and entities cannot be selected                                                                                |
| [Integration Test] BLOCKEXTRACT: After editing dynamic grips in a variable block, the exported file name is anonymous instead of the block name                                            |
| [Acceptance test] meshsmooth\solidedit: The color of the face of the 3D solid is set by the coloring face, and the color of the mesh face converted by meshsmooth is lost                  |
| [Acceptance Test] mesh\explode: The copy/paste result of right-clicking and dragging a mesh variable block between two ZWCAD processes is abnormal                                         |
| [Regression test] Pastedclip: After selecting all entities in the attached drawing and pasting it into Office, the color of some multi-line text is not displayed correctly                |

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| [Regression test] xref: After reloading the attachment external reference, the line type display effect is incorrect                                                                                               |
| [Trunk test] zwjoinplotf: When executing zwjoinplotf, the command line interactive prompt needs to add a colon                                                                                                     |
| hatch: When the pat file contains two blank lines, an error message will be displayed and the system will exit when viewing the pattern in the fill interface.                                                     |
| [Installation package test] inetlocation/help: In the simplified Chinese help document, the default value of the inetlocation system variable should be www.zwsoft.cn                                              |
| [Beta internal test feedback] Lisp: After loading the attached Lisp, the entities generated by ZWCAD are inconsistent with those of competing products.                                                            |
| [Beta internal test feedback] Zoom: The attached drawings will have obvious lag when panning and zooming on a medium-configuration graphics card environment                                                       |
| [Acceptance test] [Memory surge when opening DXF file] open/saveas: Attached drawing: Jihundao-2019.03.11-Bamian.dwg, save as dxfR12 format drawing, competitor acad2024 opens prompt and press ENTER to continue  |
| [Beta internal test feedback] JWWIMPORT/help: The help document does not include the introduction of SXF&JWW related commands such as JWWIMPORT                                                                    |
| [Beta internal test feedback] zwplot\toolbar: There is no smart batch printing button on the "standard" toolbar                                                                                                    |
| [Regression test] plot: When selecting "Layout" for print preview in the attached drawing print range, the polyline with arcs is not displayed smoothly                                                            |
| boundary: The picking point and ring search effect of attachment drawings is incorrect in some display environments                                                                                                |
| plot: Zero line width straight line is too thick when printed to PDF                                                                                                                                               |
| Hardware acceleration: In a dual-graphics environment, directly start the desktop shortcut. ZWCAD is a high-performance graphics card, but double-clicking DWG to start ZWCAD uses an energy-saving graphics card. |
| [Beta internal test feedback] The ZWCAD in the Chinese version title bar needs to be changed to "ZWCAD".                                                                                                           |
| [Regression test] refedit: After editing the attached drawing in place, no modification or saving is done, and many extra entities are displayed after exiting the reference editing                               |
| ZW Machinery: When resetting cui in the mechanical version, I hope to change the path for reading cuix to the mechanical directory instead of the platform directory                                               |
| [Internal Feedback] open: Open the attached 3D drawing, zwcad does not respond                                                                                                                                     |
| [Beta internal test feedback] Lisp: After loading the attached Lisp, there will be extra prompt information when creating a new drawing, and the program will crash when closing it                                |
| [Beta internal test feedback] fillet: After rounding the straight lines in the attached drawing, the shorter straight line becomes a point                                                                         |
| [Regression test] plot: After selecting the JPEG printer in the layout space and then switching to the PDF printer, the print preview ratio is wrong                                                               |
| ZRXSDK: ZrxVersion.h in the inc directory is an internal header file and should not be provided to others.                                                                                                         |
| [Memory Leak] open: Open the attached drawing and close it directly, there is a memory leak of 1334814 bytes                                                                                                       |
| [Memory Leak] PSPACE: Every time you activate or exit the viewport of the attached drawing, there will be a memory leak of about 100,000 bytes.                                                                    |

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| [Beta internal test feedback] fillet: Long self-intersecting polylines cannot be rounded                                                                                                                          |
| [Regression test] display/hatch: when opening attached drawings, the hatch display is incorrect                                                                                                                   |
| bedit: After entering the block editor and executing the attached zrx command, close and save the drawing directly, and then open it again, the element is lost                                                   |
| [Efficiency Test] ai_selall: After loading the Tian Zheng interpreter, only non-building entity drawings are included. The efficiency of selecting all drawings decreases significantly                           |
| [Beta feedback] lisp: After loading the iMini tool, when executing the mini_xclip command on a block, the resulting crop is not a rectangular crop                                                                |
| [Efficiency test] copy/move: After loading the Tian Zheng interpreter, only non-building entity drawings are included, and the copy/move efficiency decreases significantly                                       |
| [Open and Save] Save: The attached drawing "S.H120.001~H460.103 備煉契摺档柯老恩钻.dwg" failed to save in dwg2007 and below formats                                                                                        |
| [Open and Save] open/save: The attached drawing "Huiyang Tianhong Supermarket Layout Adjustment 11.02.dwg" is saved as dxf2007 or higher version and cannot be opened                                             |
| RefEdit: In-place editing level is incorrect when inserting a drawing containing dynamic blocks as xref                                                                                                           |
| [Beta internal test feedback] Itscale: After switching to layout and then back to model space, the line type scale of the attached drawing changes                                                                |
| Productization issue: Modification of resource content based on feedback from Polish agents                                                                                                                       |
| [Internal Feedback] Dynamic Input: When the number of decimal places in the units setting is small, the dynamic input box has more reserved spaces                                                                |
| [Beta internal test feedback] display: When a straight line has a slight tilt angle, it will be displayed as a broken line when the zoomed view is zoomed out                                                     |
| [Open and Save] open/save: After the attached drawing "Muppa_FIRE_27-01-2020_2.dwg" is saved and opened and closed continuously, the saved drawing is deleted and the program crashes when executing saveas again |
| [Beta internal test feedback] Hardware acceleration: Hardware acceleration cannot be enabled in the customer environment AMD Ryzen 7 5800x + AMD pro duo                                                          |
| 3D: Program crash when opening attached drawings                                                                                                                                                                  |
| Plot: After clicking "Apply to Layout" in the plot interface, pressing ESC cannot exit the dialog box                                                                                                             |
| [Beta internal test feedback] spell: After closing the spell check, restarting ZWCAD does not remember the last closed state                                                                                      |
| [Quality Improvement] xref: At 200% zoom, the icon on the external reference panel is cracked                                                                                                                     |
| [Quality Improvement] ZRX: AcString::format formatted a string containing a percent sign incorrectly, causing the program to crash                                                                                |
| [Quality Improvement] pface: Feature points cannot be captured correctly in the attached polyhedral mesh 3D visual style                                                                                          |
| [Printing in physical stores] zwplot: Select the same paper size, and the paper will automatically change to A6 after exiting the preview                                                                         |
| [Merge test] recover: Using the recover command to open the attached drawing "Allu Studio section (1).dwg", the program crashes                                                                                   |

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| ZRX\AcDbPointCloudEx::traverseAllPointData: Wrong result when traversing attachment point cloud when dataTypes is 0                                                                                               |
| ZRX: AcString::format formatting %n result error causes program crash                                                                                                                                             |
| [Confirmation test] [Support STEP import] flatten: After selecting a block to convert to a 2D object, undo and then redo the result is wrong                                                                      |
| [RC test] ZRX/save/open: Create a custom entity based on the AcDbEmbeddedASMEntPropsPE::setIsEmbeddedEnt interface and save the drawing in dxf format. Then it fails to open it with a competitor's product       |
| ui: Optimize the display effect of dimension lines                                                                                                                                                                |
| ui: Suggest updating the icon design of pan and 3dorbit                                                                                                                                                           |
| [Quality Improvement] open/saveas: After saving the attached drawing in dxf format and then opening it, it prompts that the drawing is damaged and cannot be opened                                               |
| [Beta internal test feedback] blockbreak: insert a block as a mask, delete the area cover and copyclip, the area cover appears again                                                                              |
| [Internal Feedback] open: Open the attached drawing under zero document, the program generates dmp                                                                                                                |
| CR/offset: When offsetting a spline in an attached drawing using the "through" method, the software crashes                                                                                                       |
| display/hatch: Dense line hatch pattern has extra lines when scaling                                                                                                                                              |
| [Installation package test] update: Check for updates will always be in the checking state                                                                                                                        |
| [Installation package test] Install: When installing in network deployment mode, check the automatic rental option, and the activation number input box displayed cannot enter the four characters A, Z, 9, and 0 |
| [Basic Use Case Construction] EditTableCell: When managing cell styles, deleting the currently applied cell style will cause ZWCAD to freeze.                                                                     |
| solidedit: ZWCAD does not respond when performing tilt operations on the 3D solid surface in the attached drawing                                                                                                 |
| cuix/APP+: Maintain APP+ related information in the simplified Chinese version, and add a "plugin" panel in the ribbon                                                                                            |
| [Regression test] select: box-select objects in attached drawings, very inefficient                                                                                                                               |
| [Regression test] shade: modify the SHADEDGE variable, then enter shade to modify the visual style, the ribbon interface visual style still displays as "2D wireframe"                                            |
| [Internal feedback] text: When a single-line text is aligned, the cursor is incorrect when pressing Enter to create a 2-line text.                                                                                |
| layer: You want to adjust the size of the icons on the Layer Properties Manager panel                                                                                                                             |
| xref\efficiency: Selecting an external reference in an attachment drawing to perform a binding operation is slow                                                                                                  |
| help: The help document lacks the content of zwjoinplot/zwjoinplotf commands                                                                                                                                      |
| zrx: zcdbEntMod cannot modify the data of ZcDbAssocNetwork                                                                                                                                                        |
| ZRX: AcDb3dSolid::getSubentMaterial and AcDb3dSolid::setSubentMaterial are not implemented                                                                                                                        |
| [Internal feedback] text: After modifying the properties of the single-line text in the attached drawing, the text is out of place                                                                                |
| [User Exchange Group Feedback] superhatch: When the path of the raster image contains illegal characters, executing the superhatch command will throw an exception error                                          |

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| [Internal feedback] cuix: cuix files cannot be merged after online update                                                                                                                                                                                                                |
| [Internal Feedback] Text: When creating a single-line text, after inserting a field, press Enter at the end of the single-line text to enter the second line of text, then delete the second line of text, exit text creation, and find that the first line of text has also disappeared |
| [Internal Feedback] text: When creating a vertical single-line text, the text entered in the line wrapping overlaps the first line of text                                                                                                                                               |
| [Internal Feedback] text: When entering superscript characters between single-line text, the line spacing is updated incorrectly and the cursor is positioned incorrectly                                                                                                                |
| ZRX: The fitted tangents obtained by AcGeNurbCurve3d::getFitTangents are incorrect                                                                                                                                                                                                       |
| [Internal feedback] Lisp: In Alpha version, the program crashes when loading a lisp file without the 2-byte BOE header.                                                                                                                                                                  |
| [Internal Feedback] ACISIN: When importing the attached SAT file, the box command is executed in the 3D visual style to capture the SAT model area, and the lag is still there even if the capture is turned off.                                                                        |
| copyclip: There is a lag when copying a block reference in an attached drawing                                                                                                                                                                                                           |
| [2024 SP1.4 test] [Trunk test] hatch: Execute the hatch command and the application crashes                                                                                                                                                                                              |
| [User Communication Group Feedback] When ZWCAD is minimized, the external parameter reload bubble moves to the upper left corner, causing CAD to freeze                                                                                                                                  |
| zrx: When the keyword passed in by acedInitGet is too long, acedDragGen input keyword causes a crash                                                                                                                                                                                     |
| ZRX: After wblockCloneObjects is cloned and saved, the saved drawing has a duplicated external reference                                                                                                                                                                                 |
| [2024 SP1.4 Test] [Open and Save] open: The attached drawing "LA-Plan.dwg" crashes when opened                                                                                                                                                                                           |
| [User communication group feedback] hatchedit: When editing a fill and creating a new border, the default fill is not associated with the border                                                                                                                                         |
| [User communication group feedback] zwplot: When batch printing, canceling the preview requires canceling twice                                                                                                                                                                          |
| [2024 SP1.4 Test] [Efficiency Test] regen: The regen efficiency of drawings such as Attachment D:\001.dwg has decreased                                                                                                                                                                  |
| [2024 SP1.4 Test] [Open and Save] Open: The drawing "22144 NANTES Schuman Synd.dwg" with point cloud attachment crashes when opened                                                                                                                                                      |
| CrashReport: Display the designer's contact information in the crash dialog                                                                                                                                                                                                              |
| [LGD][Integration Test][exportpdf]: EPDF outputs PDF, and the initial range is obtained incorrectly.                                                                                                                                                                                     |
| [LGD][Integration Test][EXPORTPDF]: When EPDF outputs PDF, the pop-up controls disappear and ZWCAD freezes.                                                                                                                                                                              |
| [LGD] [Integration Test] [EXPORTPDF]: EPDF output range is incorrectly remembered in model space and layout space                                                                                                                                                                        |
| Control Panel: The domain name of ZWCAD in the uninstall program list is incorrect                                                                                                                                                                                                       |
| [2024 SP1.4 test] [Merge test] open: ZWCAD crashes when opening the attached drawing of multi-storey residential building (customer drawing) - copy.dwg                                                                                                                                  |
| [LGD] [Integration Test] [DIM Intelligent Dimensioning Implementation] dim: When executing the dim command on the attached drawing, the dimension preview is not highlighted                                                                                                             |
| [Basic Use Case Construction] xattach: When inserting a drawing, the "missing shx font" box cannot be popped up                                                                                                                                                                          |

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| help: The help document lacks the content description of ZWCLOSELINE and ZWOUTPUTEXCEL commands                                                                                                          |
| help: Hope that ZWPLOT and ZWSIZEDRIVE can be searched in the help document                                                                                                                              |
| ZRX\zcdbEntMod: Cannot change field type block attribute value to text                                                                                                                                   |
| [LGD] [Open and Save] open: The attached drawing "A1_回欄キ回瓜(3)_28F-RF_112.11.07.dwg" opens without response                                                                                               |
| [LGD] [Integration Test] [EXPORTPDF] exportpdf: In multi-language versions, the exportpdf related interface is not fully displayed                                                                       |
| [2025 1.1 Test] [Point Cloud Experience Test] pointcloudcolormap: After deleting all color schemes and clicking the OK button, ZWCAD crashes                                                             |
| [Beta customer feedback] plot: Change the custom paper size from inches to millimeters, the paper size is still inches                                                                                   |
| [2025 1.1 Test] [Point Cloud Experience Test] pointcloud/refedit: The external reference is a point cloud, and multiple exit reference editing fails                                                     |
| [2025 1.1 test] [Merge test] plot: background printing is always stuck and cannot print normally                                                                                                         |
| Plot: In the attached drawing, when printing the proxy graphics in the viewport to PDF, there are extra white edges                                                                                      |
| [Internal test communication group feedback] qdim: Quick annotation command, attachment drawing annotation, when specifying the annotation position, the annotation direction cannot be quickly adjusted |
| zrx: No error message when zds_zrxload loads zrx file                                                                                                                                                    |
| [2025 1.1 Test] [Open and Save] open: The attached drawing "C1596-B體iment 3-4_R+1.dwg" may crash or become unresponsive when opened                                                                      |
| [Project Test] spline: Draw a spline curve by copying and pasting coordinate points. The last coordinate point cannot be drawn.                                                                          |
| 3D commands: Some unsupported 3D creation and editing commands will be found in the application menu of the standard version                                                                             |
| plt2dwg: The English interface name is too long, so it cannot be fully displayed and the meaning conveyed is not correct                                                                                 |
| ifcimport: The name of the English version of the dialog box needs to be changed                                                                                                                         |
| [Automated script construction] pointcloud: The attachment contains a point cloud drawing, and the point cloud displays abnormally                                                                       |
| [Project test] [Tian Zheng entity supports OPM editing] [Open and save] open: There is a probability of crash when opening the attached drawing "Copy 1-3.dwg"                                           |
| ZRX: ZcDbCurve::createFromZcGeCurve is not implemented                                                                                                                                                   |
| display: When the high-performance graphics card is abnormal, ZWCAD will use high performance by default, which will cause display problems                                                              |
| MESH: Attachment polyface meshes are not displayed correctly in 3D visual style                                                                                                                          |
| update: Update package installation failed, no log record                                                                                                                                                |
| Update: Before installing the update package, disk space detection needs to be added                                                                                                                     |
| [Internal feedback] trim: Two orthogonal lines cannot be trimmed correctly                                                                                                                               |
| INPUTSEARCHOPTIONFLAGS: When character matching input is turned on, some mechanical commands cannot be recognized after creating a new closed drawing                                                    |
| [Merge test] properties/hyperlink: Unable to add hyperlinks through the property bar                                                                                                                     |
| [Merge Test] Floating window: Multiple documents in the floating window cannot be displayed side by side, and the label is displayed in black                                                            |

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| [Project Test] text: When creating text via copy and paste commands, the command line is not disabled when entering text values, resulting in text creation exceptions                                                               |
| [Main test] Commandline: In half-screen mode, some commands are not fully displayed                                                                                                                                                  |
| help: The setting result in the help document is wrong when the INSUNITS value is set to 9                                                                                                                                           |
| [Project Test] [Tian Zheng Entity supports OPM editing] display: Open the attached drawing, select the balcony with handle FF, the highlight effect is incorrect                                                                     |
| open/block/explode: No response when opening the attachment block and referencing the drawing, but the drawing opens normally after the block is exploded                                                                            |
| [Open and Save] open: The attached drawing "180PL12.dwg" prompts that it needs to be repaired when opened, and crashes when opened again                                                                                             |
| exportpdf: Some contents in the exportpdf dialog box are not fully displayed                                                                                                                                                         |
| ZRX: Open an object with kSplineCVFrameShow flag, and then close the object directly, and redundant entities will be displayed                                                                                                       |
| [Writing Automation Use Cases] zwplot: When selecting scattered line batch printing, identify the frame, and click the highlighted frame numbers, not all of them are displayed on the top layer.                                    |
| -refedit: When the relative path of a nested external parameter is not at the same level as the external parameter, -refedit edits the nested external parameter. When exiting without saving, the nested external parameter is lost |
| imageattach: When attaching an image with location information, the location file will not be automatically changed when switching images in the Image Attachment dialog box                                                         |
| ZRX\AcDbBlockReference::getClassID: The classid returned by calling getClassID for a block reference whose block table record id is empty is incorrect                                                                               |
| zrx: After AcDbObject::swapIdWith returns eNotImplementedYet, the entity extension dictionary cannot be opened normally later                                                                                                        |
| [Integration test] [Support automatic switching of input methods] Floating window: When creating a floating window, the document tab on the floating window displays abnormally                                                      |
| zrx\AcDbDatabase: The result of wblockCloneObjects cloning entities is incorrect, and there are extra items displayed on the external reference panel                                                                                |
| [Internal feedback] pointcloud: In perspective view, make the point cloud into blocks with base points other than 0,0,0, and snap point movement                                                                                     |
| navvcube: Command line prompt information needs to be improved                                                                                                                                                                       |
| VIEWCUBE: In the current view, the view range is scaled so that the object is not in the center of the view. Clicking VIEWCUBE again in that view direction does not re-center the object.                                           |
| [Baseline test case construction] tablestyle: After overwriting the fields in the table created by the starting table, ZWCAD crashes when editing the starting table style                                                           |
| [Automated Script Construction] Floating window, test to create a floating window, the name of the floating window document tab becomes black and the name cannot be displayed.                                                      |
| [ZGD Merge Test] ZRX: Call acedTextBox, select multiple leaders, and then edit, the program crashes                                                                                                                                  |
| BLOCK\move: After moving or copyclipping a block and saving it, reopening the drawing reveals that some of the graphics that make up the block have not been saved.                                                                  |

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| [Acceptance test] vpclip: Execute the vpclip command to crop the small viewport and generate dmp                                                                                                          |
| [Baseline Use Case Construction] Help: Offline help document search function is not available                                                                                                             |
| [Layer State Management] Ribbon: Ribbon-Layer menu sub-item cancels the display of the Layer State Manager                                                                                                |
| [Writing Automation Use Cases] xref: After updating the attachment external parameter path, the external parameter quantity is missing                                                                    |
| [Internal feedback] eattedit: When editing properties, after changing the property value, press Alt+A and click OK, ZWCAD crashes                                                                         |
| [Source Toolbox] lisp\vl: After loading the Source Toolbox, commands such as "YQ", "SD", and "DD" are not recognized                                                                                      |
| [Acceptance Test] Floating window: When the main program is in the layout space and there is a floating window, the floating window flashes when a command is entered                                     |
| [Acceptance Test] Floating Window: Drag a document into a floating window, perform grip editing on the viewport in the main program, close the floating window, and the program crashes                   |
| [User Exchange Group Feedback] xclip: When selecting mixed blocks, deleting the cropping boundary cannot be deleted                                                                                       |
| [User Exchange Group Feedback] Extend: The polyline in the attached drawing cannot be extended normally                                                                                                   |
| [Automated Script Construction] Sheetset: Crash when opening the insert list in the sheetset and then closing the dialog box to exit ZWCAD                                                                |
| xref/undo: After attaching an external reference, unloading, reloading, and detaching it, and then performing two rollback operations, a cr file will be generated                                        |
| [3D solid explode reconstruction] explode: crash when all attached drawings are selected and exploded                                                                                                     |
| [3D solid explode reconstruction] explode: after the ring with inner radius of 0 is exploded, the solid and acad are inconsistent                                                                         |
| ZRX: Two intersecting entities create a solid using AcDb3dSolid::createSculptedSolid resulting in an error                                                                                                |
| ZRX: AcDbEntity::setVisibility cannot be undone after setting it for an xref entity                                                                                                                       |
| [Trunk Test] ZRX: The order of ESC exiting 3DORBIT command triggering AcEditorReactor::commandEnded is incorrect                                                                                          |
| open: After the attached drawing is saved as dxf, the opening prompt is invalid or incomplete DXF input                                                                                                   |
| [Project Preparation] help/4K: The help document on the 4K screen is folded and needs to be dragged and enlarged to fully display the search box.                                                         |
| ZRX: AcGeCircArc2d::endAng and AcGeCircArc2d::startAng were calculated incorrectly, resulting in incorrect calculation of arc length and parameters                                                       |
| [Baseline Use Case Construction] table: After the two tables in the attachment were interrupted and saved consecutively, the table data in the saved drawing was wrong and could not be cloned and copied |
| ViewCube: Modify the view of any one of the ViewCube icon, vpcontrl control, and the view control of the view tab on the Ribbon. The other two are not switched synchronously.                            |
| [Open and Save] open: The attached R12 version drawing "mapa.dxf" cannot be opened                                                                                                                        |

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| [Open and Save] open: The attached drawing "-1st floor fire hydrant.dwg" may crash when opened                                                                                                                           |
| [Acceptance Test] [Engineering View] Viewbase: The engineering view objects generated by the attached drawings have a red frame, and the program crashes when editing 3D objects                                         |
| ZwPointCloudCore.vcxproj should be modified to use libtiff and libwebp dynamic libraries                                                                                                                                 |
| [Integration test] [Cuix file merge] patch: After the update package is installed, add the following registry for cuix merge                                                                                             |
| ZRX\currentSpaceId: After the attached drawing is switched to the drawing space and the viewport is deleted, the current currentSpaceId is empty                                                                         |
| [Merge test] bedit: Convert dynamic blocks to variable blocks and change them to annotative. After saving, open them with a competitor and they will be displayed as anonymous blocks.                                   |
| [Open and Save] open: The attached drawing "____.dwg" is likely to be unresponsive when opened                                                                                                                           |
| ZRX_entmod: Cannot convert fields in single-line text or dimension text to text                                                                                                                                          |
| [Merge test] blockreplace: Duplicate information exists in the command line during block replacement                                                                                                                     |
| [Merge test] hatchedit: Double-click to edit fill, "View selection set" function does not work                                                                                                                           |
| [Merge test] plot: After clicking "Apply to Layout" in the plot interface, click [Properties] or [Modify], and the [Apply to Layout] is grayed out incorrectly                                                           |
| [Merge test] refedit\insert: After editing the attached drawing in place, the changes cannot be saved to the block definition, and the original block is still inserted again                                            |
| help\pagesetup: The help document lacks information about the toolbar entry for the pagesetup command                                                                                                                    |
| ZRX: The result matrix returned by AcGeScale2d::getMatrix interface is incorrect                                                                                                                                         |
| ZRX: Expected to implement AcDbEntity::visualStyleId                                                                                                                                                                     |
| [Regression test] Sheetset: Multiple drawings use layout as input and then transfer electronically, the version recognition under the file table is wrong                                                                |
| [2025 1.2 Quality Assurance Test] help/DGN: DGN reference basemap is described as DNG reference basemap in the help document                                                                                             |
| ZRX: Deleting key value via AcDbIdMapping::del interface has no effect                                                                                                                                                   |
| [2025 1.2 Quality Assurance Test] Zoom: The efficiency of the attached drawing zoom-e is very low                                                                                                                        |
| [Regression test] ribbon: Hope to optimize the translation of ZWCAD Website in online in ribbon                                                                                                                          |
| ZRX: Memory leak in AcBrBrep::set interface                                                                                                                                                                              |
| [Regression test] STD/OPEN: Standard version opens attached drawings and copies/repeats                                                                                                                                  |
| [Luxshare Precision] qsave/view: After modifying the camera coordinates and target coordinates of the drawing through 3dorbit, save the drawing in the block editor, and the entity is not displayed in the drawing area |
| [Open and Save] open: The attached drawing will crash when saved in dxf format other than R12 and then opened                                                                                                            |
| field: Create a block with field attributes, the field background is not displayed, and the association is lost                                                                                                          |

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| [Regression test] Commandline: On a 2k screen, the command line height cannot be dragged to display only one line                                                                                          |
| [Open and Save] open: After opening the attached drawing PaineI_Cobertura_Rev03.dwg, the drawing area crashes when you click on it                                                                         |
| ZRX\acedSSGet\X: When there are many 3D entities in the drawing, the efficiency of filtering and selecting entities using a linked list containing RTLB and RTLE nodes is low                              |
| [Automated Result Analysis] grip: Repeatedly select the annotation objects in the drawing, and the display order of overlapping grips changes                                                              |
| [Automated Result Analysis] Spline: The display effects of repeated regeneration are different, and automated screenshot comparison cannot be supported                                                    |
| 【Customer feedback】 trim: The ZWCAD platform version fails to trim Tianzheng's continuous annotations, resulting in an exception                                                                           |
| [Internal Feedback] dsvviewer: When the sdi value is 1, creating a new document without closing the dsvviewer dialog box will cause ZWCAD to crash.                                                        |
| [RC test] refedit/undo: After editing a variable block in place, undo and return to editing in place, and the variable block becomes a normal anonymous block                                              |
| ZRX: Incorrect results for arc segments generated by breaking a polyline using getSplitCurves                                                                                                              |
| [Update package test] onlineupdate: After the update package is upgraded, the "Updating" prompt box will pop up when starting CAD                                                                          |
| hatch: The hatch objects present in the attached drawing are not displayed                                                                                                                                 |
| pointcloudattach: After the las file provided by Zhonghaida is converted, it is displayed according to the scan color, and some point clouds are displayed abnormally                                      |
| ZRX\image: Images drawn in 3D mode are not displayed after adding kDrawableViewDependentViewportDraw tag to subSetAttributes                                                                               |
| [Project Acceptance] Toolbar: Execute toolbar, check first and then check "Find Text", GDI will increase                                                                                                   |
| [Project Acceptance] Hatch/properties: Select fill, modify the pattern type in the properties bar, open the "Fill Pattern Type Dialog Box", and then close it. GDI increases by about 150                  |
| [Automated testing] It is expected that in the automated testing environment, the cursor of the single-line and multi-line text editors will be kept displayed and the flashing effect will be turned off. |
| SAVEAS: All shortcut keys in the "Save As Options" dialog box are invalid                                                                                                                                  |
| mapcs: In the coordinate system details of the projected coordinate system, the geographic coordinate system name is empty                                                                                 |
| options: I hope to remove the option shortcut keys in the "Hide Message Settings" dialog box                                                                                                               |
| options: Some contents in the English version of the "Options" dialog box are not fully displayed                                                                                                          |
| options: The uppercase and lowercase forms of some buttons in the English version of the "Options" dialog box are inconsistent. It is recommended to optimize                                              |
| dimarc: Polish version lacks Mtext command branch                                                                                                                                                          |
| [Baseline Use Case Construction] dimangular: Select the arc part of the polyline to create an angle dimension, stretch the polyline grip, and the dimension update effect is wrong                         |
| [Internal Feedback] imageattach: When tracing an image, the position of the entity and the image will jump during the scaling process                                                                      |

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| [Efficiency test] zrx\ads_queueexpr: Load the efficiency test reactor to the startup group, execute the efficiency scr script, abnormal (ZLSP-STARTUP) input occurs, causing the script to be interrupted |
| [Baseline Use Case Construction] xref: Crash when undoing after selecting a new path for a pdf reference                                                                                                  |
| [Internal Feedback] POINTCLOUDATTACH: When the file name contains special characters, the point cloud can be imported but the name is empty                                                               |
| [User Exchange Group Feedback] xref: In the detailed information page of the external reference panel, the content pasted into the save path field will be truncated                                      |
| [Automated script construction] When open:sdi=1, opening the attachment drawing crashes                                                                                                                   |
| zwsizedrive: The icon display effect of the size drive button is not clear                                                                                                                                |
| [Automated testing] vports/grid lines: When creating a new drawing, the grid is displayed in the model space, but the grid is not displayed in the new viewport in the layout space                       |
| [Internal feedback] viewbase: Execute the viewbase command to create a project view in a new layout, and the layout has a viewport by default                                                             |
| [Automated testing] Lisp: Command execution in Lisp is interrupted and returns to the no-command state                                                                                                    |
| [Baseline Use Case Construction] Publish: When the printer of the drawing page setting is jpg, ZWCAD freezes when publishing to DWF                                                                       |
| [Internal Feedback] xline/linetype: Enable hardware acceleration, set the line type of xline to PHANTOM2, and when zoomed out to a certain extent, xline will not be displayed                            |
| [Internal Feedback] POINTCLOUDATTACH: After saving a drawing with a point cloud attached and reopening it, changes to the point cloud-related system variables do not take effect                         |
| layer: Before creating a new layer and sorting it, double-clicking the layer to activate the layer is misaligned with the highlighted layer                                                               |
| 【Internal Feedback】 Dynamic style design of the progress bar of the image opening                                                                                                                         |
| [Architectural feedback] hatch/display: Attachment drawings display error when opened                                                                                                                     |
| [Automated testing] zwplot: When you click on the preview button when printing multiple documents, the preview fails and the drawing area cannot be operated.                                             |
| [Basic use case construction] checkstandards: Repeated modification of named objects, repair operations, program crashes                                                                                  |
| [Internal feedback] 3D view: On computers with AMD Ryzen 5 3500U with Radeon Vega Mobile Gfx processors, highlighting entities in 3D visual style may cause a crash                                       |
| [Architecture Feedback] Tianzheng/TProtect: When the attached drawing is enlarged to a certain extent, any element will not be displayed after the drawing is protected                                   |
| [Architectural Feedback] Tian Zheng/TMap2D: The result generated by the Graphic Change Line TMap2D command does not have the 3D hidden effect                                                             |
| [Architecture Feedback] Tianzheng/TSymbCut: Adding break lines to closed polylines, the color of the polyline does not change in time                                                                     |
| [Merge test] spline: The spline curve in the attached drawing is not displayed correctly                                                                                                                  |

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| [Architecture Feedback] Select/bar selection: Bar selection where a straight line and an arc overlap, repeated bar selection results in inconsistent results                                                                                    |
| [Architectural feedback] Tianzheng/TOffset: Select the wall with doors and windows for offset, the doors and windows do not move with the wall                                                                                                  |
| [Merge test] cui/ribbon: After deleting ZWCAD.CUIX under appdata, start ZWCAD again, the ribbon menu is missing and the word "unit test" appears                                                                                                |
| ZRX: Calling acedTrans in dwgInFields fails returning -5001                                                                                                                                                                                     |
| ZRX\wblockCloneObjects: Dynamic block additional data is lost after dynamic block cloning                                                                                                                                                       |
| Flatshot: After executing Flatshot to export to dwg, execute open to pop up the dialog box for selecting a file, and click the drawing without preview effect                                                                                   |
| MVSETUP: The Polish version has a command branch keyword conflict that causes some functions to be unavailable                                                                                                                                  |
| [Open and Save] open: There is a chance of freezing when opening the attached drawing                                                                                                                                                           |
| ZRX\getStretchPoints\moveStretchPointsAt: Incorrect results for corner annotation acquisition and moving stretch points                                                                                                                         |
| ZRX\intersectWith: The intersection of straight lines and arcs on different surfaces cannot be found using intersectWith                                                                                                                        |
| [Acceptance test] [Print optimization] plot/GDI: GDI leak occurs during GDI printing, causing zwcad to crash                                                                                                                                    |
| [Open and Save] open/dxf: The attached drawing "jak步鏼novo_ID.dwg" cannot be opened after being saved as dxf2018                                                                                                                                 |
| [Project Acceptance] Select: In the attached drawing, the arc cannot be selected with a high probability in the column selection                                                                                                                |
| solprof: After executing solprof on the attached drawing, the entity cannot be selected when returning to the model space                                                                                                                       |
| ZRX\writeBytes: When inserting a drawing containing a custom entity, the interface returns eInvalidInput when the second parameter of writeBytes in dwgOutFields is 0                                                                           |
| Block/Undo/adcenter: Dynamic blocks are redefined and become ordinary blocks after undo. Dynamic blocks cannot be restored.                                                                                                                     |
| [User Communication Group Feedback] In the small control in the upper left corner of the attached drawing, the text display does not switch when the view style is switched for the first time                                                  |
| [RC test] zwplot: When previewing drawings during multi-document printing, after exiting the preview, closing the software in the taskbar will cause a crash.                                                                                   |
| [Automated testing] NETEXCEPTIONSHOWOPEN/-fcmp: In the 2025 version, NETEXCEPTIONSHOWOPEN is set to 1 and -fcmp is executed. If the path is wrapped with "", an exception prompt will be generated; in the 2024 version, a CR will be generated |
| ZRX: acedSSSetFirst(NULL,NULL) does not trigger pickfirstModified reactor                                                                                                                                                                       |
| vba: thisdrawing.utility.getremotefile will not report an error when downloading a file from a non-existent link                                                                                                                                |
| 【Customer feedback】 Hardware acceleration: Win7 SP1+UHD630 graphics card, after turning on hardware acceleration, the circle and text are not displayed when scaling the drawing                                                                |
| ZRX\AcGeCurveCurveInt3d::numIntPoints: Intersection of attachment arc failed with 1e-6 precision                                                                                                                                                |

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| FLATSHOT: The branch keyword of the multi-language version "Entire Model (E)" command is not recognized                                                                                                                                                    |
| [Integration Test] solprof: The block units generated by the projection are inconsistent with the current platform settings                                                                                                                                |
| [Merge test] xref: Crash occurs when scaling after specifying a new path after binding a nested reference containing a PDF basemap                                                                                                                         |
| [Merge test] plot: When printing a PDF to an existing file with the same name, if you are prompted to overwrite, select No. The original file is damaged.                                                                                                  |
| SCR\OPEN: When using the scr script to execute the open command to open an already opened drawing, the Y in the script cannot be used as the input for "whether to open read-only"                                                                         |
| ZRX: isUniScaledOrtho incorrect after transformBy of attachment block reference                                                                                                                                                                            |
| ZRX: AcDbEllipse::viewportDraw is not implemented                                                                                                                                                                                                          |
| [Regression test] cui/quickproperties/custom entity: Loading zrx of hatcharea and hatcharedb custom entities, modifying the quick property list edit object type in CUI, ZWCAD crashes                                                                     |
| [Merge test] hatch: Fill the closed area formed by arcs and spline curves in the attached drawing, and the filling fails                                                                                                                                   |
| [Merge test] hatch: fill the closed area in the attached drawing, fill failed                                                                                                                                                                              |
| ZRX: ZcDbObject::swapIdWith interface cannot perform undo/redo correctly                                                                                                                                                                                   |
| [Baseline Use Case Construction] Blocksum: When using blocksum to count variable blocks in drawings, the block names output by the command line are not the actual block names                                                                             |
| ZRX\SubDMesh: ZcDbSubDMesh::convertToSurface converts mesh to surface and the result is empty                                                                                                                                                              |
| ZRX\ads_action_tile\ads_client_data_tile: The client_data obtained by the dcl control callback function is incorrect, causing the program to crash                                                                                                         |
| [Baseline Use Case Construction] bsaveas: After executing bsaveas to save a new block copy during block editing, executing bclose will still pop up a prompt box asking whether to save the block changes                                                  |
| [Baseline test case construction] ncopy: Select annotation preview position when ncopy copies annotations within a block                                                                                                                                   |
| [User Exchange Group Feedback] pdfimport: When importing a PDF attachment, the entities in the frame are lost                                                                                                                                              |
| plot: When the printer is abnormal, it will cause the software startup to hang                                                                                                                                                                             |
| open: The attached drawing "Paneles solares2010.dwg" is saved as r14 format and opened with acad2018, prompting for repair                                                                                                                                 |
| [Open and Save] Open: When opening the attached drawing, a proxy Action of the dynamic block is revived. During the process of AcDbBlockScaleAction, a very large number is read, and memory needs to be allocated continuously, resulting in no response. |
| [Baseline use case construction] blockbreak: The block interrupted by blockbreak uses the attribute block, and the attribute value is not previewed when inserting the attribute block                                                                     |
| bedit: Want to disable save related commands in block editing mode                                                                                                                                                                                         |
| ZRX\acedGetString\acedSSGet: SESSION mode registration command, paste text input during GetString, SSGet selection interaction process is obviously stuck                                                                                                  |
| ZRX: After executing the undo command after swapIdWith in the block, the block displays an error                                                                                                                                                           |

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| ZRX: Incorrect results for calling numLeaderLines and getStretchPoints for multiple leaders                                                                                                   |
| ZRX: Incorrect result of moveStretchPointsAt for multiple annotations with multiple LeaderRoots                                                                                               |
| [2025 1.3 Quality Enhancement] Etransmit: Electronic transmission through local Outlook, ZWCAD does not respond after canceling the send                                                      |
| -hyperlink: After linking a domain name without the http prefix, clicking on the icon will not jump to the corresponding URL                                                                  |
| ZRX\AcDbRotatedDimension::moveStretchPointsAt: Use moveStretchPointsAt to stretch the text when marking                                                                                       |
| Refedit: After the in-place editing of the xref insert attachment drawing is completed, redundant entities are generated                                                                      |
| ZRX\acedGrDraw: acedGrDraw: incorrect display effect when color and hl parameters are 0                                                                                                       |
| ZRX: The return values of AcDb3dSolid::transformBy and AcDbRegion::booleanOper are inconsistent with those of competing products, resulting in program flow errors                            |
| lisp\ssget: CP mode of SSGET cannot correctly select intersecting text                                                                                                                        |
| [Internal feedback] dim/block: When marking a block, modify the properties of entities in the block, save the drawing and then open it again. The moved entity markup loses its associativity |
| ZRX_moveGripPointsAt: The result of spline stretching coincident grip points is incorrect when the spline is closed and the closure is not smooth                                             |
| 【User Communication Group Feedback】 About: The software crashes when executing the about command in a special environment                                                                     |
| [Baseline Use Case Construction] bscale: When using bscale to scale attribute blocks in drawings with drawing units in feet, the scaling effect is incorrect                                  |
| UI/DYNMODE: The background color of the dynamic input list is white, which does not match the dark color style                                                                                |
| point: After changing the default values of thickness and celtscale, the thickness and linear scale of the created point still retain the original default values                             |
| POINTCLOUDCROP: The display effect after point cloud cropping is worse than ACAD                                                                                                              |
| lisp\laymrg: It is expected that no dialog box will pop up when calling the laymrg command through the lisp command                                                                           |
| ZRX\xclip\saveas: The clipping boundary data of the clipping block is wrong after multiple saves                                                                                              |
| lisp\COM: Setting the TextFill and TextFillColor properties of a annotation via COM does not work                                                                                             |
| lisp: After the Bitch Toolbox [Layer-Quick Layer Selection] dialog box pops up, click on the listbox blank column and an error message will be displayed                                      |
| ZRX\acedCommandS, acedReDraw: construction lines created by acedCommandS cannot be undisplayed by acedReDraw                                                                                  |
| plot/OLE: OLE does not display when printing at high DPI                                                                                                                                      |
| mtext\style: In the attached drawings, after modifying the large font of the text style, some fonts are displayed incorrectly. The font changes after double-clicking to enter the edit       |
| ZRX: The AcGeLineSeg3d::isColinearTo interface judgment result of straight line segments with the same starting point and tangent angle of about 1e-14 is incorrect                           |
| dynblock: After the attachment dynamic block is stretched, the associated dimension moves incorrectly                                                                                         |

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| ZRX: ZcString::substr does not process Chinese strings correctly in text                                                                                                                     |
| ZRX: When the arc radius is 0, AcGeDwgIO::inFields/AcGeDwgIO::outFields read and write do not match                                                                                          |
| ZRX: AcDbBlockReference::setBlockTableRecord could not correctly modify the reference count of the original block definition when the original block definition was opened for read/write    |
| ZRX: ads_tblnext traversal block efficiency is low                                                                                                                                           |
| ZRX: CAdUiPathname::ParseRelative fails when the working path + relative path is too long                                                                                                    |
| Tianzheng Interpreter: When TCH_KERNAL is ZwAecKernal.zrx, the software crashes when opening a drawing containing Tianzheng entities with the configuration of the Tianzheng plugin          |
| ZRX\AcDb3dSolid: After deleting the temporary db, the material id of the 3D solid cloned from it becomes wild and the program crashes                                                        |
| ZRX: CAdUiPathname::Exists fails when the working path + relative path is too long                                                                                                           |
| dimangular: Draw two intersecting lines, then execute dimangular to create a 2-line annotation. The xline1 and xline2 of the created annotation are opposite to acad.                        |
| Purchase consultation: There is no purchase consultation entry in the ribbon, menu, or restricted function prompt box                                                                        |
| [Internal Feedback] splinedit: When executing the move (M) branch under the fit data (F) branch of the splinedit command, the preview of other points is abnormal and may crash.             |
| xclip: attachment lisp statement execution result is incorrect                                                                                                                               |
| Lisp\redraw: entities highlighted by redraw will not be unhighlighted after being copied using the copy command                                                                              |
| 【CR】 ZRX\getClosestPointTo: When the length of the spline curve node is 0, the closest point interface crashes when called                                                                   |
| 【CR】 ZRX: When the spline curve nodes are in reverse order, an exception is thrown when calling the length interface                                                                         |
| [Internal Feedback] Help: The table, mleader, mleaderalign, field, dim and other commands lack the entry of "Common" - "Comment".                                                            |
| hatch: hatch border in the stretched attachment drawing, the association is cancelled                                                                                                        |
| Feedback: Modify the URL of the feedback page after installing the 2026 version                                                                                                              |
| dimlinear: It is recommended that the dimension preview when creating linear/aligned/diameter/radius/arc length/angle/coordinate dimensions should be consistent with DIM                    |
| [Block Optimization Project Acceptance] eattedit: Click the Select Block button in the Enhanced Attribute Editor, and the dialog box does not open after selecting the attribute block       |
| [Project Acceptance] cr/open: ZWCAD crashes when opening attached DXF file                                                                                                                   |
| Plot: In the customer environment, it takes 2 minutes for the special drawing plot dialog box to pop up                                                                                      |
| [Architecture Feedback] Tianzheng/Toffset: When the wall is offset to the room name, the text cannot show the background mask effect                                                         |
| [Architectural feedback] Tianzheng/TExplode: Open the attached drawing, execute the decomposition object in 3D mode, and after the arc wall is decomposed, redundant arc lines are generated |
| [Architectural feedback] Tianzheng/TLineToPoly: When changing a line to a polyline, the precision is input as 2000, but the result is incorrect                                              |

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| [Architectural feedback] Tianzheng/TLineToPoly: The execution line of two intersecting arc segments is changed into a polyline, and the result is inconsistent with expectations                                                                                             |
| 【CR】.NET: After the SpatialManager plugin authorization expires, executing zoom crashes                                                                                                                                                                                      |
| 【CR】ZRX: When opening multiple unsaved drawings at the same time, autosave triggers kSaveMsg messages multiple times and getNamedObjectsDictionary returns eLockViolation                                                                                                    |
| openonlineoptions: The line thickness of the icons in the Ribbon interface is inconsistent, I hope it can be unified                                                                                                                                                         |
| [Internal Feedback] pan: When selecting pan mode in 3DORBIT, double-clicking the middle mouse button multiple times quickly causes ZWCAD to crash.                                                                                                                           |
| [Internal feedback] graphicsconfig: When mesadv.dll exists in the system directory, enabling hardware acceleration may cause ZWCAD to crash when launched.                                                                                                                   |
| [Internal Feedback] xref: After modifying LOADDWGCONCURRENTLYIFPOSSIBLE, unloading and reloading the attached drawing will cause zwcad to crash                                                                                                                              |
| Application menu: Updated the official website link of "Open in ZW3D"                                                                                                                                                                                                        |
| imageattach: Image preview takes too long for large images                                                                                                                                                                                                                   |
| [Architectural feedback] EXPLODE/WMF: Extra ellipses appear after decomposition of attachment drawings                                                                                                                                                                       |
| [Architecture Feedback] Architecture/ZAColumn Standard Column: Column fill is on. Double-click any fill pattern in the column fill dialog box and the fill preview will be displayed in white.                                                                               |
| [Architectural feedback] Tian Zheng/TLineToPoly: The attached drawing cannot be changed from a line to a polyline                                                                                                                                                            |
| [Architectural feedback] Tian Zheng/TARROW: When creating arrow annotations continuously without exiting the command, you cannot continue to create arrow annotations after entering the character height value by clicking the "Character Height" button in the dialog box. |
| [Architectural feedback] TAXISGRID: Arc axis grid, clear the current data to share the axis line, directly modify the depth or angle data, the preview image in the dialog box and the axis grid in the drawing area disappear                                               |
| battman: Can perform any operation on another drawing during block selection                                                                                                                                                                                                 |
| ZRX: acedSSGet's C-mode selection has low fill efficiency outside the drawing area                                                                                                                                                                                           |
| UTF-8's lisp program displays Polish text incorrectly                                                                                                                                                                                                                        |
| fillet: The fillet effect is incorrect after creating fillets for polylines in the attached drawing                                                                                                                                                                          |
| [Integration Test] [Smart Matching] count: After opening any drawing, open the matching object manager and then close it, and continue to open the favorite drawings. The preview is displayed as the preview of the opened drawing.                                         |
| ZRX/saveAs: Read a blank drawing into the temporary db and save it. The saved thumbnail is the thumbnail of the currently opened drawing.                                                                                                                                    |
| Installation package: Improve the translation accuracy of the French version of the installation package installation interface                                                                                                                                              |
| [Merge test] Hardware acceleration/image: After turning off hardware acceleration and scaling the attached drawing, ZWCAD becomes unresponsive                                                                                                                               |
| 【Customer feedback】Bedit/bclose: There is a delay in the pop-up dialog box when entering and exiting the block editor in ZWCAD                                                                                                                                               |

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| [Internal feedback] AMEP: Install AMEP first, then reinstall the ZWCAD platform version, drag the Tianzheng drawing to the shortcut to open, and it crashes                                                    |
| appload: Plugin information added to the startup group via appload is not added to the registry                                                                                                                |
| insertobj: inserts a "package" as an OLE object, does not specify the program path, and does not display the program icon                                                                                      |
| [User feedback] CleanScreenON: When the initial state is windowed, execute CleanScreenON first, then execute CleanScreenOFF, ZWCAD does not return to the windowed state                                       |
| DRAWINGRECOVERY: In the Drawing Recovery Manager, after opening an existing DWG, press Shift and double-click the folder, and the program does not respond                                                     |
| [Internal feedback] mtext: After entering some text in the traditional Chinese input method, switching to another input method, and then switching back to the traditional Chinese input method, ZWCAD crashes |
| zrx: AcEdInputPointMonitor::monitorInputPoint has the wrong value for the first parameter in intersection snap mode                                                                                            |
| 【CR】 Lisp: Repeated loading of the Yukuaisuan zelx plugin may cause a crash                                                                                                                                    |
| ZRX:AcDbSpline::getArea and AcGeNurbCurve3d::area calculate the area of the spline curve incorrectly                                                                                                           |
| [Internal Feedback] mtextedit: When double-clicking to edit multiple lines of text in an attached drawing, frequently pressing Alt+Tab will generate a dmp file                                                |
| Plot: Printing line widths below 0.3 has the same width and the color is too light                                                                                                                             |
| [OEM test] cmdinput: Execute the -layer command c branch to select true color, then zwcad crashes when entering an overlong string                                                                             |
| plot/pagesetup: the options for center printing in plot and pagesetup are not arranged neatly                                                                                                                  |
| view/snapstyl/cursor: After switching the axis view and then changing the snap type to isometric snap, the cursor does not display correctly                                                                   |
| [Multi-language resource confirmation] layoff: In the Russian version, the command flow is incorrect when executing the layoff-ob branch.                                                                      |
| [toolbox] ZW Toolbox - Layer - Close object layer, execute O branch, execute B branch, command flow does not return                                                                                            |
| Shademode\Layout: Volume shading has small shadows and does not display smoothly                                                                                                                               |
| ucs/layout: After changing the layout ucs switches to another layout, the UCS icon and cursor in the layout are also changed                                                                                   |
| [External Assistance] plot: ZWCAD crashes when printing attached drawings                                                                                                                                      |
| dimarc: When executing the p branch, you cannot select a point by moving the mouse on the arc and then pressing Space or Enter to confirm the point                                                            |
| zoom: After specifying a corner point, move the cursor and the selection window flashes frequently                                                                                                             |
| Highlight: The color of the highlighted entity is incorrect                                                                                                                                                    |
| mesh/properties: The name of the mesh entity displayed in the property bar is the proxy entity                                                                                                                 |
| Plot/plotstyle: After selecting a print style sheet in the print dialog, there is no prompt whether to apply it to all layouts                                                                                 |
| Plot: When "Last" is selected in "Page Setup", the display unit "Inch" is not remembered                                                                                                                       |
| Open\hatch: Open the attached drawing, there is extra fill displayed                                                                                                                                           |

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| mtext\Thai\win10: In the win10 system, the Thai multi-line text in the attachment is displayed as?                                                                                                     |
| open: The program crashes when opening the attached drawing "SAULX03_DET_plan_S2.dwg"                                                                                                                  |
| layerstate: Importing the las layer list exported from the layer state manager, the state of layer 0 is incorrect                                                                                      |
| Zrx/removeHatchLines: ZcDbHatch::removeHatchLines interface is not implemented                                                                                                                         |
| properties: After closing the current drawing multiple times, press ctrl+1 to execute the propertiesclose command                                                                                      |
| battman: After clicking "Edit" in the attachment property block, the properties are changed without any modification after switching tabs                                                              |
| zrx_ads_ssget: Using "F" mode to select attachment entities, the number of selected entities is incorrect                                                                                              |
| xref\refedit\copy: When editing an external reference with annotations in refedit, the bind operation fails after copying the annotations                                                              |
| saveas\table: Saving attachment tables is less efficient                                                                                                                                               |
| ZRX\ucsname: The return value of ucsname is incorrect in the small viewport of the layout space                                                                                                        |
| zwplot: Use ZWB batch printing tool to split drawings into separate DWGs. The output DWG version is expected to be consistent with the default save format set.                                        |
| ZRX\CompositeCurve\localToGlobalParam: Crash when inputting unusual curve number in AcGeCompositeCurve3d::localToGlobalParam                                                                           |
| hatchedit/-hatchedit/ellipse: After filling an ellipse, deleting the border and then regenerating the border does not work correctly                                                                   |
| adcenter: After the design center panel is opened by CTRL+2, it cannot be closed by CTRL+2 again                                                                                                       |
| revcloud/ucs: The cloud line grips drawn under ucs are displayed incorrectly                                                                                                                           |
| revcloud/ucs: Executing branch O under ucs results in an error                                                                                                                                         |
| dynblock\undo: Modify the rotation angle in the property bar, undo to cancel, modify again, there is redundant display in the array stretching                                                         |
| dynblock: When moving the alignment grip of a dynamic block to the end point of an arc, the rotation angle of the dynamic block is incorrect                                                           |
| Properties/Dimension: With Dimension Units set to Architectural and Display Tolerances enabled, the Tolerances Eliminate Zero Feet and Tolerances Eliminate Zero Inches properties are always disabled |
| Plot_dwfx: The attached dwg drawing cannot be imported into acad after being exported as dwfx                                                                                                          |
| eattedit\undo: Modify multi-line attributes with fields and undo invalid                                                                                                                               |
| lisp: After loading the wrong lsp file with attachment, the file is occupied                                                                                                                           |
| 3dorbit: Cannot switch files during command                                                                                                                                                            |
| Field: The annotation text in the attached drawing is not displayed when pasted into acad2018                                                                                                          |
| copyclip\hatch: When copying the gradient fill created in acad2018 to zwcad, the fill is not fully displayed within the boundary                                                                       |
| commandline: adjust zwcad width, command line does not automatically wrap to display prompt information                                                                                                |
| Plot: When printing a drawing with a raster printer, ZWCAD crashes                                                                                                                                     |
| Plot: In 3D view, the preview and actual print results do not match                                                                                                                                    |

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| Hatch: When inheriting properties, the origin item setting of the source hatch pattern is invalid                                          |
| dwfattach: The command line prompt is inaccurate when executing the dwfattach command                                                      |
| open_move: Some objects in the attached drawing are displayed abnormally                                                                   |
| undo/dimdiameter: After undoing the grip point of the stretched circle, the grip point position of the diameter annotation is not restored |
| xref/pdfunderlay: After inserting a PDF underlay as an xref, the xref cropping effect is incorrect                                         |
| lengthen: Enter any value in the dynamic branch to lengthen the arc and display the redundant polar tracking effect                        |
| block\copyclip\pasteclip\AnnotationScale: Copying and pasting a block reference in an attached drawing gives an incorrect result           |
| dimension: The background color of the field in the dimension is incorrect when the drawing background is white\black                      |

| Customer Information                                                                           |
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| ZWSOFT-Vietnam                                                                                 |
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| Northlink Office Systems Corporation JEF<br>Engineering                                                                      |
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| ACA Pacific-Singapore PT ACA Pacific-Indonesia<br>URBAN+                                                                     |
| Shanghai Riqing Architectural Design Co., Ltd.                                                                               |
| CCCC Fourth Harbor Engineering Survey and Design<br>Institute Co., Ltd. China Communications<br>Construction Company Limited |
| Nitrosoft Gaoyida Technology (Shenzhen) Co., Ltd.                                                                            |
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| Harbor Engineering Survey and Design Institute Co., Ltd. ZW Spain China Communications Construction |
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| CHAM-JAPAN Netlearn Update CC Usługi Informatyczne 'Szansa' 新来岛どっく                                  |
| Ningbo Samsung Medical Electrical Co., Ltd.                                                         |
| CHAM-JAPAN                                                                                          |
| China Merchants Heavy Industries (Jiangsu) Co., Ltd.                                                |
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| Shanghai Riqing Architectural Design Co., Ltd.                                                      |
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| TBM Software Ltd                                                                                    |
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| Taiwan ZW Technology Co., Ltd.                                                                      |
| Foshan Oceano Ceramics Co., Ltd.                                                                    |
| ZWSOFT                                                                                              |

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| 3DLotus SIA                                                                                                                                                                                                                                                        |
| ZWSOFT Zhejiang Provincial Architectural Design Institute Co., Ltd.                                                                                                                                                                                                |
| Jiangmen COSCO SHIPPING Aluminum Co., Ltd.                                                                                                                                                                                                                         |
| ZWSOFT                                                                                                                                                                                                                                                             |
| China Power Construction Group Guiyang Survey and Design Institute Co., Ltd.                                                                                                                                                                                       |
| Zhengzhou Sanqiang Municipal Engineering Co., Ltd.                                                                                                                                                                                                                 |
| 3DLotus SIA                                                                                                                                                                                                                                                        |
| Shenzhen Zhanying Network Technology Co., Ltd.                                                                                                                                                                                                                     |
| Swiss All CAD Hitachi Elevator (China) Co., Ltd.<br>Guangdong Yuehai Huajin Technology Co., Ltd.<br>Huizhou Kelike Electronics Co., Ltd. Guangdong Keyuan Electric Co., Ltd. Chonghui Semiconductor (Shenzhen) Co., Ltd. Shenzhen Sanyang Shaft Industry Co., Ltd. |
| Changsha Youyi Software Development Co., Ltd.<br>Beijing Gaojia Technology Co., Ltd.                                                                                                                                                                               |
| TotalCAD Com. e Serv. em Informática Ltda.                                                                                                                                                                                                                         |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                                                                                                                     |
| Shenzhen Zhanying Network Technology Co., Ltd.                                                                                                                                                                                                                     |
| Birocom2000 ZWSOFT                                                                                                                                                                                                                                                 |
| State Grid Anhui Electric Power Co., Ltd.                                                                                                                                                                                                                          |
| Usługi Informatyczne 'Szansa'                                                                                                                                                                                                                                      |
| ZWSOFT                                                                                                                                                                                                                                                             |
| ZWSOFT Guangdong Qunhui Protection Technology Co., Ltd. CIMC Vehicles Terabyte Car Compartment                                                                                                                                                                     |
| CADServis                                                                                                                                                                                                                                                          |
| Hangzhou Pinming Security Information Technology Co., Ltd.                                                                                                                                                                                                         |
| Nitrosoft                                                                                                                                                                                                                                                          |
| ZWSOFT                                                                                                                                                                                                                                                             |
| Nitrosoft Tiscali TotalCAD Com. e Serv. em Informática Ltda. Guangzhou Baishe Decoration Design Co., Ltd. Hangzhou Garden Design Institute                                                                                                                         |
| ZW-France                                                                                                                                                                                                                                                          |
| CRRRC Changchun Railway Vehicles Co., Ltd.                                                                                                                                                                                                                         |

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| ZW-France                                                   |
| Usługi Informatyczne 'Szansa'                               |
| TBM Software Ltd                                            |
| ZWSOFT Guangzhou Housing and Urban-Rural Development Bureau |
| ZWSOFT                                                      |
| Nitrosoft China Railway Design Group Co., Ltd.              |
| MP Scia INGENIERIA SL                                       |
| easyTEC For Technology Trading, Inc.                        |
| Hangzhou Landscape Design Institute Co., Ltd.               |
| ZWSOFT                                                      |
| Ningbo Taimao Bicycle Industry Co., Ltd.                    |
| Dober Encee CAD/CAM Systeme GmbH                            |
| Hainan Water Conservancy and Electric Power Group Co., Ltd. |
| ZWSOFT                                                      |
| Nanchang O-Film Technology Co., Ltd.                        |
| Nanjing Baose Co., Ltd.                                     |
| Birocom2000                                                 |
| XIAN JIN TRADING COMPANY LIMITED ZWSOFT                     |
| Nitrosoft ZW Spain                                          |
| Shandong Langjin Technology Co., Ltd.                       |
| Ilancad                                                     |
| ZW-France JEDI Design Group Co., Ltd.                       |
| ZWSOFT                                                      |
| EDA Systems Ltd                                             |
| ZWSOFT Hubei Sanhuan Forging Co., Ltd.                      |
| Taiwan ZW Technology Co., Ltd.                              |
| Shanghai Pudong Development Bank Co., Ltd.                  |
| CAD-design Ltd.                                             |
| CRRC Sifang Rolling Stock Co., Ltd.                         |

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| ZW-France                                                                                                                   |
| Changsha Changtai Robotics Co., Ltd.                                                                                        |
| Tyco Electronics                                                                                                            |
| Usługi Informatyczne 'Szansa'                                                                                               |
| ZWSOFT                                                                                                                      |
| CADServis                                                                                                                   |
| ZWSOFT                                                                                                                      |
| CHAM-JAPAN                                                                                                                  |
| 3DLotus SIA                                                                                                                 |
| XIAN JIN TRADING COMPANY LIMITED                                                                                            |
| Nanjing Hengfeng Aluminum Co., Ltd.                                                                                         |
| Guangzhou Shanshui Bide Design Co., Ltd.                                                                                    |
| Hangzhou Pinming Security Information Technology Co., Ltd.                                                                  |
| ACERI Birocom2000 CivilCAD Encee CAD/CAM Systeme GmbH wetechsystem ZWSOFT-Middle East Shanghai Pump Manufacturing Co., Ltd. |
| Taiwan ZW Technology Co., Ltd.                                                                                              |
| Tyco Electronics TsaiPress                                                                                                  |
| Information about 'Szansa' Zhuhai Sky Marine Co., Ltd.                                                                      |
| Taiwan ZW Technology Co., Ltd.                                                                                              |
| ZWSOFT Shanghai Ridong Optical Co., Ltd.                                                                                    |
| Nitrosoft<br>건축사사무소두가헌산이앤씨건축사사무소                                                                                            |
| Nitrosoft 탐이앤씨코리아                                                                                                           |
| Shanghai Yunlan Building Decoration Engineering Co., Ltd.                                                                   |
| Taiwan ZW Technology Co., Ltd.                                                                                              |
| Xi'an Zhongxian Software Technology Co., Ltd.                                                                               |
| Tianzheng Plumbing and Electricity                                                                                          |

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| CIMC Vehicles Terabyte Car Body Manufacturing (Jiangmen) Co., Ltd. Elephant Architectural Design Co., Ltd.                                            |
| Hunan Road and Bridge Construction Group Co., Ltd.                                                                                                    |
| ZWSOFT                                                                                                                                                |
| Usługi Informatyczne 'Szansa'                                                                                                                         |
| Nitrosoft 한빛건축                                                                                                                                        |
| Chifeng Hongtu Planning and Design Institute Co., Ltd.                                                                                                |
| Nitrosoft 비올건축사사무소                                                                                                                                    |
| Encee CAD/CAM Systeme GmbH                                                                                                                            |
| Swiss All CAD                                                                                                                                         |
| ZW-France                                                                                                                                             |
| Jangho Construction Group Co., Ltd. Shanghai Urban Construction Design and Research Institute (Group) Co., Ltd. Sunwoda Electronics Co., Ltd. Jiangsu |
| Kunming Shipbuilding Intelligent Technology Co., Ltd.                                                                                                 |
| ZW Spain                                                                                                                                              |
| Kunming Shipbuilding Intelligent Technology Co., Ltd.                                                                                                 |
| Information Technology 'Szansa' Guangxi Yuchai Power Co., Ltd.                                                                                        |
| Hangzhou Pinming Security Information Technology Co., Ltd.                                                                                            |
| Yantai Wanhua Chemical Engineering Design Institute Co., Ltd.                                                                                         |
| Dongguan Xingqihong Electronics Co., Ltd.                                                                                                             |
| Foshan Yueyouchuang Steel Structure Co., Ltd.                                                                                                         |
| Xi'an Zhongxian Software Technology Co., Ltd.                                                                                                         |
| Usługi Informatyczne 'Szansa'                                                                                                                         |
| CAD-design Ltd. Changzhou Kuangda Weide Machinery Co., Ltd.                                                                                           |
| ZWSOFT                                                                                                                                                |
| Taiwan ZW Technology Co., Ltd.                                                                                                                        |
| ZWSOFT China Merchants Jinling Shipbuilding (Weihai) Co., Ltd.                                                                                        |
| ZWSOFT                                                                                                                                                |

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| wetechsystem                                                                                                                                                                                                                                 |
| ZWSOFT                                                                                                                                                                                                                                       |
| GTX Corporation Guangdong Xingfa Aluminum Co., Ltd. Beijing Keyi Shunchi Software Technology Co., Suzhou Zhuyuan Landscape Planning and Design Co., Ltd.                                                                                     |
| ZW-France                                                                                                                                                                                                                                    |
| China Light Industry Changtai (Changsha) Intelligent Technology Co., Ltd.                                                                                                                                                                    |
| CHAM-JAPAN                                                                                                                                                                                                                                   |
| Hangzhou Pinming Security Information Technology Co., Ltd. Luban Software Co., Ltd. Beijing Gaojia Technology Co., Ltd. Xinding Knife Manufacturing                                                                                          |
| TotalCAD Com. e Serv. em Informática Ltda.                                                                                                                                                                                                   |
| ZWSOFT-Vietnam                                                                                                                                                                                                                               |
| Dongguan Gangqi Electronics Co., Ltd.                                                                                                                                                                                                        |
| ZWSOFT                                                                                                                                                                                                                                       |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                                                                                               |
| Nitrosoft 행림종합건축사사무소                                                                                                                                                                                                                         |
| ZWSOFT PADEE                                                                                                                                                                                                                                 |
| Encee CAD/CAM Systeme GmbH                                                                                                                                                                                                                   |
| AXON-vent                                                                                                                                                                                                                                    |
| ZWSOFT-Vietnam ZWSOFT CASCO Signal Co., Ltd.                                                                                                                                                                                                 |
| 3DLotus SIA                                                                                                                                                                                                                                  |
| China Merchants Jinling Shipbuilding (Weihai) Co., Ltd.                                                                                                                                                                                      |
| CADServis                                                                                                                                                                                                                                    |
| ZWSOFT                                                                                                                                                                                                                                       |
| Insta Digitech                                                                                                                                                                                                                               |
| Shanghai Umo Technology Co., Ltd. ZWSOFT Jiangyin Changdian Advanced Packaging Co., Ltd. Shenzhen Helitai Optoelectronics Co., Ltd. Dongguan Qinde Hardware Products Co., Ltd. Dongguan Shushan Software Development Studio Guangdong Qunhui |

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| Protection Technology Co., Ltd. Guangdong Ruijie                                                                                                                                     |
| Nanjing Water Conservancy Planning and Design Institute Co., Ltd. Shenzhen Longtu Mask Co., Ltd. Kunshan Robot Mould Technology Co., Ltd.                                            |
| ZWCAD Distribution srl                                                                                                                                                               |
| XIAN JIN TRADING COMPANY LIMITED ZWSOFT                                                                                                                                              |
| Nitrosoft 립건축                                                                                                                                                                        |
| Zhongwang Machinery (Beijing) Shanggong Fuyi Intelligent Manufacturing (Tianjin) Co., Ltd.                                                                                           |
| Huawei Technologies Co., Ltd.                                                                                                                                                        |
| CCCC Fourth Harbor Engineering Survey and Design Institute Co., Ltd. ZWSOFT Shanghai Survey and Design Institute (Group) Co., Ltd. China Communications Construction Co., Ltd. Gansu |
| Birocom2000                                                                                                                                                                          |
| CRRC Sifang Rolling Stock Co., Ltd.                                                                                                                                                  |
| ZWCAD Distribution srl                                                                                                                                                               |
| Usługi Informatyczne 'Szansa'                                                                                                                                                        |
| 2020 Spaces                                                                                                                                                                          |
| Beihai Water Supply Co., Ltd.                                                                                                                                                        |
| Nitrosoft                                                                                                                                                                            |
| Foshan Nanhai Zhengdong Lighting Co., Ltd.                                                                                                                                           |
| ZW-France                                                                                                                                                                            |
| Pengding Holdings (Shenzhen) Co., Ltd. ZWSOFT                                                                                                                                        |
| Shanghai Riqing Architectural Design Co., Ltd. ZWSOFT China Academy of Building Research Co., Ltd. Shenzhen Great Wall Development Technology                                        |
| CADServis                                                                                                                                                                            |
| Nitrosoft 대한산림엔지니어링                                                                                                                                                                  |
| Swiss All CAD                                                                                                                                                                        |
| ZWSOFT CCCC Tianhe Machinery Manufacturing Co., Ltd.                                                                                                                                 |
| Luban Software Co., Ltd.                                                                                                                                                             |
| Henan Kangningte Environmental Protection Technology Co., Ltd.                                                                                                                       |
| Foshan Defang Nanotechnology Co., Ltd.                                                                                                                                               |

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| Nitrosoft 경원메탈                                                                                                                                                                      |
| Hangzhou Pinming Security Information Technology Co., Ltd. Huanyang Classic Culture Development (Shanghai) Co., Ltd.                                                                |
| Shanghai Quanzhu Holding Group Co., Ltd.                                                                                                                                            |
| ZWSOFT                                                                                                                                                                              |
| Encee CAD/CAM Systeme GmbH                                                                                                                                                          |
| Dongguan Xinnengde Technology Co., Ltd.                                                                                                                                             |
| China Petroleum & Natural Gas Pipeline Engineering Co., Ltd. China National Petroleum Engineering Co., Ltd. China Petroleum Engineering Construction Co., Ltd. North China Branch   |
| Kunshan Hongzhi Electronics Co., Ltd.                                                                                                                                               |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                                      |
| CADServis Nitrosoft Nanjing Dinoni Technology Co., Ltd. China Communications Construction Co., Ltd. ZWSOFT-Middle East CCCC Shanghai Waterway Survey and Design Institute Co., Ltd. |
| Beijing Lizheng Software Co., Ltd.                                                                                                                                                  |
| Ibercad, Ida.                                                                                                                                                                       |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                                      |
| Hebei Coal Science Research Institute Co., Ltd.                                                                                                                                     |
| ZWSOFT Qingyuan Xinghui Precision Manufacturing Co., Ltd.                                                                                                                           |
| ZWSOFT Xinwanda Electronics Co., Ltd. Jiangyin Haida Rubber & Plastic Co., Ltd. Shenzhen Sanyang                                                                                    |
| Xi'an Zhongxian Software Technology Co., Ltd. AXON-vent                                                                                                                             |
| Kecht-IT-Computersystem GmbH                                                                                                                                                        |
| ZWSOFT                                                                                                                                                                              |
| CADServis                                                                                                                                                                           |
| ZW-France                                                                                                                                                                           |
| CHAM-JAPAN                                                                                                                                                                          |

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| HOPE Technologies Pvt Ltd Qingyuan Xinghui Precision Manufacturing Co., Ltd.                                                                   |
| Enceer CAD/CAM Systeme GmbH wetechsystem                                                                                                       |
| ZWSOFT aither228                                                                                                                               |
| Shanghai Pudong Youxiang Auto Parts Manufacturing Co., Ltd.                                                                                    |
| Anhui Horizon Architectural Design Office Co., Ltd.                                                                                            |
| Taiwan ZW Technology Co., Ltd.                                                                                                                 |
| Nitrosoft 티에이치엔                                                                                                                                |
| Fujian Qijian Architectural Design Co., Ltd.                                                                                                   |
| CAD FOCUS SDN BHD ZWSOFT                                                                                                                       |
| EASin                                                                                                                                          |
| Taiwan Zhongwang Technology Co., Ltd. Fuller Transmission Equipment Yancheng Co., Ltd.                                                         |
| Hangzhou Landscape Design Institute Co., Ltd. Sujiakoe Group Co., Ltd.                                                                         |
| Luban Software Co., Ltd.                                                                                                                       |
| ZWSOFT China Communications Construction Co., Ltd. China Communications Water Transport Planning and Design Institute Co., Ltd.                |
| Nanjing Eaton Parker Heavy Industry Machinery Co., Ltd.                                                                                        |
| Guangzhou Yayu Software Co., Ltd.                                                                                                              |
| Hangzhou Landscape Design Institute Co., Ltd.                                                                                                  |
| ZWSOFT                                                                                                                                         |
| ZWSOFT Volkswagen Automatic Transmission (Tianjin) Co., Ltd.                                                                                   |
| China Petrochemical Corporation                                                                                                                |
| Taiwan ZWSOFT Technology Co., Ltd. Hitachi Elevator (China) Co., Ltd. Huizhou Kelike Electronics Co., Ltd. Guangdong Keyuan Electric Co., Ltd. |
| Information about China Tianchen Engineering Co., Ltd.                                                                                         |
| China Railway Shanghai Design Institute Group Co., Ltd. China Railway Design Group Co., Ltd.                                                   |

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| Shaanxi Construction Engineering Group Co., Ltd.                                                                                       |
| ZWSOFT Hitachi Elevator (China) Co., Ltd.                                                                                              |
| Guangdong Keyuan Electric Co., Ltd. Chonghui Semiconductor (Shenzhen) Co., Ltd. Foshan Shunde                                          |
| ZWSOFT                                                                                                                                 |
| Ningbo Jiale Intelligent Technology Co., Ltd.                                                                                          |
| HOPE Technologies Pvt Ltd                                                                                                              |
| Nitrosoft ZW-France Shenzhen Kaifa Technology Co., Ltd.                                                                                |
| ZWSOFT                                                                                                                                 |
| Shanghai Damon Logistics Technology Co., Ltd.                                                                                          |
| Nitrosoft 창일테크                                                                                                                         |
| ZWSOFT                                                                                                                                 |
| Luban Software Co., Ltd.                                                                                                               |
| wetechsystem                                                                                                                           |
| Nitrosoft                                                                                                                              |
| Acecam (Pvt) Ltd                                                                                                                       |
| Nitrosoft Wanli Tire Co., Ltd.                                                                                                         |
| ZWSOFT                                                                                                                                 |
| Guangzhou Shanshui Bide Design Co., Ltd.                                                                                               |
| Xidi International Design Consultants (Shenzhen) Co., Ltd. Shanghai Yangpu Branch                                                      |
| HOPE Technologies Pvt Ltd                                                                                                              |
| Anhui Horizon Architectural Design Office Co., Ltd.                                                                                    |
| Southern Surveying and Mapping                                                                                                         |
| Taiwan ZWSOFT Technology Co., Ltd.                                                                                                     |
| Nitrosoft Usługi Informatyczne 'Szansa'                                                                                                |
| wetechsystem ZWSOFT-Vietnam Taiwan ZW Technology Co., Ltd. Hangzhou Landscape Design Institute Co., Ltd. 3DLotus SIA HOPE Technologies |
| ZWSOFT CPC Shengli Petroleum Administration Bureau Co., Ltd. Committee Party School (Training Center)                                  |
| ZWSOFT                                                                                                                                 |
| Nitrosoft ZWSOFT                                                                                                                       |
| Registru Centras ZW-France                                                                                                             |

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| Usługi Informatyczne 'Szansa'                                                                                           |
| Ibercad, Ida. Use Information Systems 'Szansa'                                                                          |
| Taiwan ZW Technology Co., Ltd.                                                                                          |
| Usługi Informatyczne 'Szansa'                                                                                           |
| ZWSOFT                                                                                                                  |
| Nitrosoft 에이엠티                                                                                                          |
| ZW-France                                                                                                               |
| ZWSOFT                                                                                                                  |
| Shanghai Damon Logistics Technology Co., Ltd.                                                                           |
| Luban Software Co., Ltd.                                                                                                |
| Shanghai Tuyuan Information Technology Co., Ltd.                                                                        |
| Shanghai Jingyu Environmental Engineering Co., Ltd.                                                                     |
| Anhui Horizon Architectural Design Office Co., Ltd.                                                                     |
| ZWSOFT                                                                                                                  |
| China Railway Shanhaiguan Bridge Group Co., Ltd.                                                                        |
| Yantai Urban and Rural Construction School                                                                              |
| CRRRC Times Electric Vehicle Co., Ltd. PointCab                                                                         |
| Shenzhen Swell Technology Co., Ltd.                                                                                     |
| Futon Technology (Guangzhou) Co., Ltd. Hangzhou Architectural Design and Research Institute Co., Ltd.                   |
| Saprsoft                                                                                                                |
| ZWSOFT                                                                                                                  |
| CAD-design Ltd.                                                                                                         |
| ZWSOFT                                                                                                                  |
| Taiwan ZWSOFT Technology Co., Ltd. Changzhou Planning Bureau Beijing Guangsha Environmental Energy Technology Co., Ltd. |
| Taiwan ZWSOFT Technology Co., Ltd.                                                                                      |
| MP Scia INGENIERIA SL                                                                                                   |
| wetechsystem                                                                                                            |

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| MP Scia INGENIERIA SL wetechsystem ZWSOFT<br>ZWSOFT-Malaysia                                                                                      |
| Encee CAD/CAM Systeme GmbH                                                                                                                        |
| ZWSOFT-Vietnam                                                                                                                                    |
| Nitrosoft                                                                                                                                         |
| Shanghai Ditaio Building Technology Co., Ltd.                                                                                                     |
| Nitrosoft 에스엠아이디자인                                                                                                                                |
| Ilancad                                                                                                                                           |
| Jiangxi Boyi New Technology Co., Ltd. Lichi Software<br>(Suzhou) Co., Ltd.                                                                        |
| MP Scia INGENIERIA SL                                                                                                                             |
| Taiwan ZW Technology Co., Ltd.                                                                                                                    |
| Taiwan ZWSOFT Technology Co., Ltd.                                                                                                                |
| Hangzhou Jinxing Copper World Decoration<br>Materials Co., Ltd. Shenzhen Chevening Technology<br>Co., Ltd. Shenzhen Yilaidun Technology Co., Ltd. |
| Shenzhen Helitai Optoelectronics Co., Ltd.                                                                                                        |
| Shanghai Yunlan Building Decoration Engineering<br>Co., Ltd.                                                                                      |
| Guangya Aluminum Co., Ltd.                                                                                                                        |
| CAD FOCUS SDN BHD Taiwan ZW Technology Co.,<br>Ltd.                                                                                               |
| ZWSOFT Dongguan Xinnengde Technology Co., Ltd.<br>CSSC Shuangrui (Luoyang) Special Equipment Co.,<br>Hongye Technology Co., Ltd.                  |
| HOPE Technologies Pvt Ltd                                                                                                                         |
| ZWSOFT                                                                                                                                            |
| HOPE Technologies Pvt Ltd                                                                                                                         |
| ZWSOFT                                                                                                                                            |
| ZW-France                                                                                                                                         |
| Nitrosoft                                                                                                                                         |
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| ZWSOFT                                                                                                                                            |

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| ZWSOFT-Vietnam CS Wind                                                                                                                                                                                                 |
| Jinan Second Machine Tool Good Automation Co., Ltd.                                                                                                                                                                    |
| ZWSOFT                                                                                                                                                                                                                 |
| Taiwan ZWSOFT Technology Co., Ltd.                                                                                                                                                                                     |
| Nitrosoft ZWSOFT-Vietnam Taiwan Zhongwang Technology Co., Ltd. Dongguan Langxing Curtain Wall Aluminum Doors and Windows Co., Ltd.                                                                                     |
| Nitrosoft 동일스위트                                                                                                                                                                                                        |
| Jiangsu Linyang Electronics Co., Ltd.                                                                                                                                                                                  |
| 2020 Spaces                                                                                                                                                                                                            |
| ZWSOFT China Power Construction Group Fujian Electric Power Survey and Design Institute Co., Ltd.                                                                                                                      |
| ZW Qingdao Office                                                                                                                                                                                                      |
| Birocom2000                                                                                                                                                                                                            |
| Zhongwang Machinery (Beijing)                                                                                                                                                                                          |
| TotalCAD Com. e Serv. em Informática Ltda. HOPE Technologies Pvt Ltd ZWSOFT                                                                                                                                            |
| Yantai Urban and Rural Construction School                                                                                                                                                                             |
| ZWSOFT Hunan Chenghexin Technology Co., Ltd.                                                                                                                                                                           |
| ZW Spain                                                                                                                                                                                                               |
| Ningbo Shiram Auto Parts Co., Ltd.DREAM TECHNOLOGY SYSTEM SDN. BHD(DTS) ZWSOFT Sinosteel Hengyang Machinery Co., Ltd.Tianjin New Century Refractory Materials Co., Ltd.ZWSOFT-Malaysia Jianke Machinery (Tianjin) Co., |
| Shenzhen Swell Technology Co., Ltd. Beijing Gaojia Technology Co., Ltd.                                                                                                                                                |
| Beijing Gaojia Technology Co., Ltd. Beijing Zhongke Fulong Intelligent Technology Co., Ltd.                                                                                                                            |
| ZWSOFT                                                                                                                                                                                                                 |
| GEOSOFT doo Spring Group Co., Ltd.                                                                                                                                                                                     |
| China Machinery Energy (Guangxi) Energy Technology Co., Ltd.                                                                                                                                                           |
| China Jingye Engineering Technology Co., Ltd.                                                                                                                                                                          |
| Fuzhou Foxit Network Technology Co., Ltd.                                                                                                                                                                              |

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| CHAM-JAPAN                                                                                                      |
| ZWSOFT                                                                                                          |
| Jiangsu Zunyang Electronic Technology Co., Ltd.                                                                 |
| ZWSOFT Jianglong Boat Technology Co., Ltd. Ningbo<br>Zhengyao Automotive Electrical Co., Ltd.                   |
| Guangzhou Shanshui Bide Design Co., Ltd.                                                                        |
| Taiwan ZW Technology Co., Ltd.                                                                                  |
| Dongguan Taiwei Electronics Co., Ltd.                                                                           |
| Usługi Informatyczne 'Szansa'                                                                                   |
| MP Scia INGENIERIA SL                                                                                           |
| Shenyang Haiwei Electric Power Equipment Co., Ltd.                                                              |
| ZW-France ZWSOFT Fuzhou Foxit Network<br>Technology Co., Ltd. Kosko Automotive Components<br>(Pinghu) Co., Ltd. |
| China Construction Southwest Survey and Design<br>Institute Co., Ltd.                                           |
| tiscali                                                                                                         |
| Zhongtian Century Industrial (Shenzhen) Co., Ltd.                                                               |
| ZWSOFT Guangdong Lijiang Science and Technology<br>Industrial Co., Ltd.                                         |
| Nitrosoft                                                                                                       |
| ZWSOFT                                                                                                          |
| Nitrosoft RELSOFT SA                                                                                            |
| Taiwan ZW Technology Co., Ltd.                                                                                  |
| Beijing Gaojia Technology Co., Ltd.                                                                             |
| Guangdong Yiqing Electric Co., Ltd.                                                                             |
| Fuzhou Foxit Network Technology Co., Ltd.                                                                       |
| Shenzhen Swell Technology Co., Ltd. Beijing Gaojia<br>Technology Co., Ltd.                                      |
| Yantai Urban and Rural Construction School                                                                      |
| Zhongwang Machinery (Beijing)                                                                                   |

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| ZWSOFT Dongguan Lingyi Precision Manufacturing Technology Co., Ltd.                                                                                                |
| ZWSOFT-Mexico                                                                                                                                                      |
| ZWSOFT                                                                                                                                                             |
| Zhejiang Hengjiu Machinery Group Co., Ltd.                                                                                                                         |
| ZW-France                                                                                                                                                          |
| CCCC Fourth Harbor Engineering Survey and Design Institute Co., Ltd. China Communications Construction Group Co., Ltd. China Communications Construction Co., Ltd. |
| Nitrosoft                                                                                                                                                          |
| ZWSOFT                                                                                                                                                             |
| XIAN JIN TRADING COMPANY LIMITED                                                                                                                                   |
| ZWSOFT Fujian Fen'an Aluminum Co., Ltd. Shanxi Electric Motor Manufacturing Co., Ltd.                                                                              |
| Luopai Die Cutting (Beijing) Co., Ltd. Wuhu Taihe Pipe Industry Co., Ltd.                                                                                          |
| ZWSOFT                                                                                                                                                             |
| Nitrosoft                                                                                                                                                          |
| Shenzhen Swell Technology Co., Ltd.                                                                                                                                |
| Panasonic Wanbao (Guangzhou) Compressor Co., Ltd. China Communications Construction Co., Ltd.                                                                      |
| Guangzhou Shanshui Bide Design Co., Ltd.                                                                                                                           |
| DREAM TECHNOLOGY SYSTEM SDN. BHD(DTS)<br>Guangdong Weifa Custom Home Furnishing Co., Ltd.                                                                          |
| Shenyang Huaxing Explosion-proof Equipment Co., Ltd.                                                                                                               |
| Taiwan Zhongwang Technology Co., Ltd. Dongguan Lingyi Precision Manufacturing Technology Co., Ltd.                                                                 |
| ZWSOFT-Vietnam                                                                                                                                                     |
| CCCC Fourth Harbor Engineering Survey and Design Institute Co., Ltd. China Communications Construction Co., Ltd. Shenzhen Yilaidun Technology Co., Ltd.            |
| Anhui Honglu Steel Structure (Group) Co., Ltd.                                                                                                                     |

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| Jingmen Shenghe Electric Power Survey and Design Co., Ltd.                                                                                             |
| TBM Software Ltd                                                                                                                                       |
| Julong Group Wuhu Xinglong Hydraulic Co., Ltd.                                                                                                         |
| Taiwan ZW Technology Co., Ltd.                                                                                                                         |
| Taiwan Zhongwang Technology Co., Ltd. Guizhou Tianma Hongshan Bearing Co., Ltd. Zhejiang Jianke Architectural Design Institute Co., Ltd. Hitachi       |
| Suzhou Jiaotong University Group Co., Ltd.                                                                                                             |
| Long Yang Electronics (Kunshan) Co., Ltd.                                                                                                              |
| Changzhou Bowo Intelligent Technology Co., Ltd.                                                                                                        |
| Eti Bilgisayar Ltd. Tongji University Architectural Design and Research Institute (Group) Co., Ltd. Jiangsu Fengshang Intelligent Technology Co., Ltd. |
| Zhongwang Water Heating and Electricity (Shanghai)                                                                                                     |
| CHAM-JAPAN Wuhan Municipal Engineering Design and Research Institute Co., Ltd.                                                                         |
| Xinyu Iron and Steel Group Co., Ltd.                                                                                                                   |
| Zhongwang Machinery (Guangzhou)                                                                                                                        |
| Nitrosoft                                                                                                                                              |
| Luban Software Co., Ltd.                                                                                                                               |
| ZWSOFT                                                                                                                                                 |
| Shanghai Linbo Architectural Planning and Design Co., Ltd. Guangdong Lijiang Science and Technology Industrial Co., Ltd.                               |
| Taiwan ZW Technology Co., Ltd.                                                                                                                         |
| ZWSOFT ZWSOFT-Malaysia                                                                                                                                 |
| ZWSOFT                                                                                                                                                 |
| Fuzhou Foxit Network Technology Co., Ltd.                                                                                                              |
| ZWSOFT                                                                                                                                                 |
| Nitrosoft ZWSOFT Wuxi LONGi Hydrogen Energy Technology Co., Ltd. Qingyuan Xinghui Precision Manufacturing Co., Ltd.                                    |
| ZWSOFT Hangzhou Water Design Institute Co., Ltd.                                                                                                       |
| ZWSOFT                                                                                                                                                 |

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| Anhui Yingteli Industrial Engineering Technology Co., Ltd.                                                                                                                                                                                                                             |
| Jiangsu Zunyang Electronic Technology Co., Ltd.                                                                                                                                                                                                                                        |
| ZWSOFT-Malaysia                                                                                                                                                                                                                                                                        |
| ZWSOFT                                                                                                                                                                                                                                                                                 |
| Hangzhou Jiazhi Technology Co., Ltd.                                                                                                                                                                                                                                                   |
| Sichuan Huachuan Industrial Co., Ltd.                                                                                                                                                                                                                                                  |
| ZWSOFT CRRC Zhuzhou Electric Locomotive Co., Ltd.<br>KONE Technology Co., Ltd.                                                                                                                                                                                                         |
| ZWSOFT-Malaysia                                                                                                                                                                                                                                                                        |
| Xi'an Zhongxian Software Technology Co., Ltd. HOPE Technologies Pvt Ltd Weihai Honglin Electric Power Technology Co., Ltd.                                                                                                                                                             |
| ZWSOFT-Vietnam ZWSOFT Taiyuan Boiler Group Co., Ltd. Dongguan Xinnengde Technology Co., Ltd. Yangzhou COSCO Shipping Heavy Industry Co., Ltd. Yantai Guoye Metallurgical Water Cooling Equipment Co., Ltd. China Railway Shanjiao Group Co., Ltd. Zhejiang Dafeng Industrial Co., Ltd. |
| Huawei Digital Energy Technology Co., Ltd.                                                                                                                                                                                                                                             |
| Changzhou Bowo Intelligent Technology Co., Ltd.                                                                                                                                                                                                                                        |
| ZWSOFT                                                                                                                                                                                                                                                                                 |
| Zhejiang Longyuan Sifang Machinery Equipment Manufacturing Co., Ltd. Hualu Engineering                                                                                                                                                                                                 |
| Huangshan Futian Precision Manufacturing Co., Ltd.                                                                                                                                                                                                                                     |
| Nitrosoft ZWSOFT Qinhuangdao Dicas Xinglong Wheel Co., Ltd. Huanyang Classic Culture Development (Shanghai) Co., Ltd. ZWSOFT-Indonesia                                                                                                                                                 |
| Nitrosoft                                                                                                                                                                                                                                                                              |
| Zhejiang Digital Intelligence Technology Co., Ltd.                                                                                                                                                                                                                                     |
| ZWSOFT                                                                                                                                                                                                                                                                                 |
| Birocom2000                                                                                                                                                                                                                                                                            |
| CCCC Fourth Harbor Engineering Survey and Design Institute Co., Ltd. China Communications Construction Company Limited                                                                                                                                                                 |
| wetechsystem ZW Spain                                                                                                                                                                                                                                                                  |
| Dongguan Lianji                                                                                                                                                                                                                                                                        |

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| ZWSOFT Guangdong Railway Planning and Design Institute Co., Ltd. Guilin Urban Planning and Design Institute                      |
| Lichi Software (Suzhou) Co., Ltd.                                                                                                |
| Guangzhou Qingtian Industrial Co., Ltd.                                                                                          |
| Tianjin Zhongchen Intelligent Equipment Co., Ltd.                                                                                |
| Party School (Training Center) of CPC Shengli Petroleum Administration Bureau Co., Ltd.                                          |
| Zhengzhou Jiuye Sanwei Chemical Machinery Co., Ltd.                                                                              |
| Jiayuan Technology Co., Ltd.                                                                                                     |
| HOPE Technologies Pvt Ltd                                                                                                        |
| ZWSOFT                                                                                                                           |
| Sichuan Provincial Highway Planning, Survey and Design Institute Co., Ltd.                                                       |
| Usługi Informatyczne 'Szansa'                                                                                                    |
| International Information Technology Co. LLC. (IITC)                                                                             |
| Zhejiang Zheneng Gas Co., Ltd.                                                                                                   |
| Nitrosoft                                                                                                                        |
| ZWSOFT Harbin Civil Air Defense Engineering Design Institute Co., Ltd.                                                           |
| ZWSOFT                                                                                                                           |
| Nitrosoft ZWSOFT Tianjin Zhongchen Intelligent Equipment Co., Ltd. China Resources Gas (Zhengzhou) Municipal Design and Research |
| Nitrosoft                                                                                                                        |
| Yantai Urban and Rural Construction School                                                                                       |
| Dongguan Shushan Software Development Studio                                                                                     |
| Usługi Informatyczne 'Szansa'                                                                                                    |
| Wuhan Municipal Engineering Design and Research Institute Co., Ltd.                                                              |
| ZWSOFT                                                                                                                           |

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| Sichuan Huachuan Industrial Co., Ltd.                                                                                                            |
| CAD FOCUS SDN BHD                                                                                                                                |
| ZWSOFT                                                                                                                                           |
| Beijing Lizheng Software Co., Ltd.                                                                                                               |
| China Construction Decoration Group Co., Ltd.                                                                                                    |
| Chengdu Xingrong Municipal Facilities Management Co., Ltd.                                                                                       |
| CRRC Zhuzhou Electric Locomotive Co., Ltd.                                                                                                       |
| ZWSOFT                                                                                                                                           |
| Taiwan ZW Technology Co., Ltd.                                                                                                                   |
| China Communications Construction Co., Ltd. China Communications Highway Planning and Design Institute Co., Ltd.                                 |
| Harbin Zhongqing Gas Co., Ltd.                                                                                                                   |
| Xilin Gol League Longxing Mining Co., Ltd.                                                                                                       |
| CHAM-JAPAN JMU                                                                                                                                   |
| Taiwan ZW Technology Co., Ltd.                                                                                                                   |
| China Petroleum Engineering & Construction Co., Ltd. Southwest Branch                                                                            |
| Piranusa                                                                                                                                         |
| Jiaxing Nice Mould Technology Co., Ltd.                                                                                                          |
| Yantai Urban and Rural Construction School<br>Guangzhou Jingxing Construction Technology Co., Ltd. Guangzhou Tongze Kangwei Technology Co., Ltd. |
| Beijing Extech Technology Co., Ltd.                                                                                                              |
| ZWSOFT Prologis Enterprise Development (Shanghai) Co., Ltd.                                                                                      |
| Dongguan Xinxu Optical Co., Ltd.                                                                                                                 |
| ZWSOFT CSSC Guijiang Shipbuilding Co., Ltd. China Railway Eryuan Engineering Group Co., Ltd.                                                     |
| ZWSOFT Hitachi Elevator (China) Co., Ltd. Guangdong Yuehai Huajin Technology Co., Ltd.                                                           |
| Postal Science Research and Planning Institute Co., Ltd.                                                                                         |

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| 3DLotus SIA                                                                                                                                                                                                                                                               |
| Yantai Urban and Rural Construction School                                                                                                                                                                                                                                |
| Zhongtian Technology                                                                                                                                                                                                                                                      |
| Sichuan Provincial Highway Planning, Survey and Design Institute Co., Ltd.                                                                                                                                                                                                |
| ZWSOFT CASCO Signal Co., Ltd.                                                                                                                                                                                                                                             |
| Ilancad wetechsystem ZW Spain China Railway Construction Corporation Limited Ningbo Xingjian Aviation Machinery Manufacturing Co., Ltd. QFCAD Youda Optoelectronics Technology (Suzhou) Co., Ltd. Daqing Oilfield Co., Ltd. Guangzhou Penghui Energy Technology Co., Ltd. |
| Eti Bilgisayar Ltd.                                                                                                                                                                                                                                                       |
| Nitrosoft ZWSOFT cadext                                                                                                                                                                                                                                                   |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                                                                                                                            |
| Hangzhou Pinming Security Information Technology Co., Ltd.                                                                                                                                                                                                                |
| Poly Changda Engineering Co., Ltd.                                                                                                                                                                                                                                        |
| ZWSOFT                                                                                                                                                                                                                                                                    |
| Guangzhou Planck Industrial Equipment Co., Ltd.                                                                                                                                                                                                                           |
| Guangzhou Baiyun Electric Equipment Co., Ltd. Fuzhou Foxit Network Technology Co., Ltd. Dongguan Honglin Vehicle Co., Ltd. Beijing Xinya                                                                                                                                  |
| Zhejiang Desijie Environmental Protection Technology Co., Ltd.                                                                                                                                                                                                            |
| ZWSOFT-Middle East Zhejiang University of Technology Engineering Design Group Co., Ltd.                                                                                                                                                                                   |
| Beijing Inkeyu Technology Development Center                                                                                                                                                                                                                              |
| MP Scia INGENIERIA SL ZWSOFT-Middle East                                                                                                                                                                                                                                  |
| ZWSOFT                                                                                                                                                                                                                                                                    |
| Xi'an Jingtian Traffic Engineering Technology Research Institute                                                                                                                                                                                                          |
| Sichuan Chenguang Engineering Design Institute Co., Ltd.                                                                                                                                                                                                                  |
| CHAM-JAPAN Co., Ltd.                                                                                                                                                                                                                                                      |
| GAIN Software GmbH                                                                                                                                                                                                                                                        |

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| City Software & IT Services                                                                                                                       |
| ZWSOFT                                                                                                                                            |
| Sichuan Provincial Highway Planning, Survey and Design Institute Co., Ltd.                                                                        |
| Nitrosoft                                                                                                                                         |
| Ningbo Boyang Home Textile Group Co., Ltd. TCL Ruizhi (Huizhou) Refrigeration Equipment Co., Ltd. Zhongshan TCL Refrigeration Equipment Co., Ltd. |
| Beijing Zhongwei Digital Communication Software Co., Ltd.                                                                                         |
| ZW-France Yantai Urban and Rural Construction School                                                                                              |
| HOPE Technologies Pvt Ltd                                                                                                                         |
| CHAM-JAPAN Oshima Shipbuilding                                                                                                                    |
| ZWSOFT                                                                                                                                            |
| CHAM-JAPAN Taiwan ZW Technology Co., Ltd.                                                                                                         |
| Nitrosoft                                                                                                                                         |
| Beijing Gaojia Technology Co., Ltd.                                                                                                               |
| ZWSOFT                                                                                                                                            |
| Nitrosoft HOPE Technologies Pvt Ltd ZWSOFT Shanghai Qicheng Architectural Planning and Design Co., Ltd.                                           |
| Guangzhou Huayan Precision Machinery Co., Ltd.                                                                                                    |
| ZW Architecture (Shanghai)                                                                                                                        |
| Yantai Urban and Rural Construction School ZW Spain                                                                                               |
| Shanghai Dingyi Environmental Protection Technology Co., Ltd.                                                                                     |
| Yantai Urban and Rural Construction School China Railway Sixth Survey and Design Institute Group Co.,                                             |
| ZWSOFT-Middle East                                                                                                                                |
| CADSHELL                                                                                                                                          |
| Hangzhou Jingwei Information Technology Co., Ltd.                                                                                                 |
| Chengdu Qianjia Technology Co., Ltd.                                                                                                              |
| Guangdong Southern Digital Technology Co., Ltd.                                                                                                   |

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| CADServis                                                                                                                                                          |
| Beijing Zhongke Fulong Intelligent Technology Co., Ltd. Futian-Daily Bundle Storage and Transportation                                                             |
| CCCC Fourth Harbor Engineering Survey and Design Institute Co., Ltd. China Communications Construction Group Co., Ltd. China Communications Construction Co., Ltd. |
| TotalCAD Com. e Serv. em Informática Ltda. Shanghai Paipin Software Co., Ltd.                                                                                      |
| Hangzhou Landscape Design Institute Co., Ltd.                                                                                                                      |
| ZWSOFT                                                                                                                                                             |
| Yantai Urban and Rural Construction School                                                                                                                         |
| ZWSOFT                                                                                                                                                             |
| Nitrosoft                                                                                                                                                          |
| Yantai Urban and Rural Construction School                                                                                                                         |
| ZWSOFT                                                                                                                                                             |
| ZWSOFT-Vietnam                                                                                                                                                     |
| CHAM-JAPAN                                                                                                                                                         |
| Usługi Informatyczne 'Szansa'                                                                                                                                      |
| Zhejiang Longyuan Sifang Machinery Equipment Manufacturing Co., Ltd. Henan Giant Crane Group                                                                       |
| Jiayiyang (Beijing) Medical Technology Co., Ltd. Guangdong Finney Technology Co., Ltd. Nanjing                                                                     |
| Beijing Inkeyu Technology Development Center                                                                                                                       |
| Hunan Sanyu Engineering Management Co., Ltd.                                                                                                                       |
| Hangzhou Feishida Software Co., Ltd.                                                                                                                               |
| China National Chemical Industry Guilin Engineering Co., Ltd. Suzhou Xingshengke Semiconductor                                                                     |
| ZW-France Nanchang Surveying and Mapping Research Institute Co., Ltd.                                                                                              |
| Tianjin Zhongchen Intelligent Equipment Co., Ltd. Guangzhou DSPPA Audio Technology Co., Ltd.                                                                       |
| ZWSOFT-Vietnam                                                                                                                                                     |

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| CAD-design Ltd.                                                                                                                                                                                                                                   |
| Suzhou Xingshengke Semiconductor Materials Co., Ltd.                                                                                                                                                                                              |
| Guangzhou Planck Industrial Equipment Co., Ltd.<br>Guangdong Shengtai Environmental Protection and                                                                                                                                                |
| Nitrosoft                                                                                                                                                                                                                                         |
| Nitrosoft Beijing Shanghua Software Co., Ltd.                                                                                                                                                                                                     |
| Saprsoft                                                                                                                                                                                                                                          |
| Nitrosoft                                                                                                                                                                                                                                         |
| Usługi Informatyczne 'Szansa'                                                                                                                                                                                                                     |
| ZWSOFT-Vietnam HOPE Technologies Pvt Ltd                                                                                                                                                                                                          |
| Sichuan Transportation Survey and Design Institute Co., Ltd.                                                                                                                                                                                      |
| Guangzhou Shanshui Bide Design Co., Ltd.                                                                                                                                                                                                          |
| ZWSOFT Guangzhou Penghui Energy Technology Co., Ltd.                                                                                                                                                                                              |
| Wuhan Xingfanrong Precision Industry Co., Ltd.                                                                                                                                                                                                    |
| Foshan Songhui Motor Technology Co., Ltd.                                                                                                                                                                                                         |
| Guangzhou Radius Electric Copper Materials Co., Ltd.<br>Guangzhou Wanbao Group Refrigerator Co., Ltd.                                                                                                                                             |
| China Power Construction Group Fujian Electric Power Survey and Design Institute Co., Ltd.                                                                                                                                                        |
| Wuhan Xingfanrong Precision Industry Co., Ltd.                                                                                                                                                                                                    |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                                                                                                    |
| Nitrosoft                                                                                                                                                                                                                                         |
| Kecht-IT-Computersystem GmbH                                                                                                                                                                                                                      |
| Nitrosoft Usługi Informatyczne 'Szansa' HOPE Technologies Pvt Ltd Dongguan Wanying Intelligent Technology Co., Ltd. Shenzhen Jingtian Precision Technology Co., Ltd. Shenzhen Dongzheng Optical Technology Co., Ltd. Guangdong Xinkexing Hardware |
| Yantai Urban and Rural Construction School                                                                                                                                                                                                        |

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| HOPE Technologies Pvt Ltd Dongguan Wanying Intelligent Technology Co., Ltd.                                                                                                                                                                                                                                                                               |
| ZWSOFT                                                                                                                                                                                                                                                                                                                                                    |
| HOPE Technologies Pvt Ltd                                                                                                                                                                                                                                                                                                                                 |
| Shanghai Lijin Aluminum Engineering Co., Ltd. Hunan Litong Electric Power Survey, Design and Consulting                                                                                                                                                                                                                                                   |
| Hangzhou Landscape Design Institute Co., Ltd.                                                                                                                                                                                                                                                                                                             |
| wetechsystem Nanjing Baose Co., Ltd. Taiwan ZWSOFT Technology Co., Ltd.                                                                                                                                                                                                                                                                                   |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                                                                                                                                                                                                            |
| China Power Construction Group Guiyang Survey and Design Institute Co., Ltd. Hangzhou Boiler Group                                                                                                                                                                                                                                                        |
| Henan Topfond Pharmaceutical Co., Ltd.                                                                                                                                                                                                                                                                                                                    |
| Guangzhou Shanshui Bide Design Co., Ltd.                                                                                                                                                                                                                                                                                                                  |
| Zhongwang Water Heating and Electricity (Shanghai)                                                                                                                                                                                                                                                                                                        |
| Jiangxi Boyi New Technology Co., Ltd.                                                                                                                                                                                                                                                                                                                     |
| ZW Spain                                                                                                                                                                                                                                                                                                                                                  |
| Shenyang Xinlian Petrochemical Equipment Co., Ltd.                                                                                                                                                                                                                                                                                                        |
| ZWSOFT                                                                                                                                                                                                                                                                                                                                                    |
| Shanghai Jingwei Architectural Planning and Design Institute Co., Ltd. Tongji University Architectural Design and Research Institute (Group) Co., Ltd. Shanghai Qicheng Architectural Planning and Design Co., Ltd. Tetuo (Qingdao) Tire Technology Co., Ltd. Futon Technology (Guangzhou) Co., Ltd. Shenzhen Great Wall Development Technology Co., Ltd. |
| Taiwan Zhongwang Technology Co., Ltd. Daxiang Architectural Design Co., Ltd. Nanjing Changjiang                                                                                                                                                                                                                                                           |
| ZWSOFT Jiawei New Energy Co., Ltd. Dongguan Meichitu Industrial Co., Ltd.                                                                                                                                                                                                                                                                                 |
| Huanyang Classic Culture Development (Shanghai) Co., Ltd. Qiannianzhou New Materials Technology                                                                                                                                                                                                                                                           |
| China Information Post and Telecommunications Consulting and Design Institute Co., Ltd.                                                                                                                                                                                                                                                                   |
| Changli Electric                                                                                                                                                                                                                                                                                                                                          |

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| wetechsystem                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CCCC Fourth Navigation Engineering Survey and Design Institute Co., Ltd. Jiangsu Architectural                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Jiaxing Aigson Electronics Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ZWSOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Shenzhen Sunlord Electronics Co., Ltd. Taiwan ZW Technology Co., Ltd. ZWSOFT Nanjing Steam Turbine Electric Technology Co., Ltd. China Communications Construction Co., Ltd. Sichuan Highway Planning, Survey and Design Institute Co., Ltd. Guiyang Water Conservancy and Hydropower Survey and Design Institute Co., Ltd. China Resources Gas Zhengzhou Engineering Construction Co., Ltd. Eiseko Computers Haige Ruide (Changzhou) Industrial Technology Co., Ltd. Zhejiang Fanxiang Machinery Equipment Co., Ltd. Hangzhou Xinxing Vehicle Materials Co., Ltd. CCCC Third Navigation Engineering Survey and Design Institute Co., Ltd. Guangzhou Shenxing |
| wetechsystem                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ZWSOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ZW Spain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ZWSOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Nitrosoft ZWSOFT-Vietnam ZWSOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| CCCC Fourth Navigation Engineering Survey and Design Institute Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ZWSOFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ZWSOFT-Japan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Xinyu Iron and Steel Group Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| CADServis Nitrosoft PlantCAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CCCC Fourth Navigation Engineering Survey and Design Institute Co., Ltd. JSTI Group Co., Ltd. Guangdong Caihong Laser Mould Technology Co., Ltd. TCL Ruizhi (Huizhou) Refrigeration Equipment Co., Ltd. Zhongshan Chuangyixing Industrial Co., Ltd. Guangdong Xindian Electric Power Technology Co., Ltd.                                                                                                                                                                                                                                                                                                                                                     |
| Shenzhen Ruipengfei Mould Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ZW-France                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Hebei Shangbo Electric Manufacturing Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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| China Railway Shanhaiguan Bridge Group Co., Ltd.                                                                          |
| ZWSOFT                                                                                                                    |
| ZW Spain                                                                                                                  |
| Nitrosoft Guangzhou Zengcheng District People's Government Licheng Sub-district Office                                    |
| China Communications Construction Co., Ltd. CCCC Fourth Harbor Engineering Bureau Co., Ltd.                               |
| Southern Surveying and Mapping                                                                                            |
| Hangzhou Pinming Security Information Technology Co., Ltd.                                                                |
| Fuzhou Foxit Network Technology Co., Ltd.                                                                                 |
| China Communications Construction Co., Ltd. CCCC Fourth Harbor Engineering Bureau Co., Ltd.                               |
| ZWSOFT-Vietnam                                                                                                            |
| Changsha Changtai Robotics Co., Ltd.                                                                                      |
| Ibercad, Ida.                                                                                                             |
| HOPE Technologies Pvt Ltd                                                                                                 |
| ZWSOFT                                                                                                                    |
| Beijing Cross Century Software Technology Co., Ltd.                                                                       |
| ZWSOFT Rifeng Enterprise Group Co., Ltd. Zhuhai Founder Printed Circuit Board Development Co., Ltd.                       |
| XIAN JIN TRADING COMPANY LIMITED                                                                                          |
| CAD FOCUS SDN BHD CAD-design Ltd. Usługi Informatyczne 'Szansa' Elephant Architectural Design Ltd.                        |
| ZW-France Taiwan ZW Technology Co., Ltd.                                                                                  |
| Wenshan Zhuang and Miao Autonomous Prefecture                                                                             |
| Changsha Changtai Robotics Co., Ltd. Ningbo Sunny Infrared Technology Co., Ltd.                                           |
| Nitrosoft Shanghai Lijin Aluminum Engineering Co., Ltd. Guangzhou Huitian Manufacturing Co., Ltd.                         |
| China Communications Construction Co., Ltd. China Municipal Engineering Northeast Design and Research Institute Co., Ltd. |
| TBM Software Ltd                                                                                                          |
| Nitrosoft China Railway Shanhaiguan Bridge Group Co., Ltd. Kunshan Depeng Electronic Technology Co.,                      |
| ACS GmbH ABITRON GERMANY GMBH                                                                                             |
| easyTEC For Technology Trading, Inc. MP Scia                                                                              |

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| INGENIERIA SL Usługi Informatyczne 'Szansa'                                                     |
| ZWSOFT                                                                                          |
| Huanyang Classic Culture Development (Shanghai) Co., Ltd.                                       |
| Nitrosoft Beijing Seniger Magnetic Technology Co., Ltd.                                         |
| Zhejiang University of Technology Engineering Design Group Co., Ltd.                            |
| ZWSOFT Toyo Engineering (Shanghai) Co., Ltd. ZW Community                                       |
| TBM Software Ltd Suzhou Industrial Park Jiuhe Industrial Furnace Co., Ltd.                      |
| Usługi Informatyczne 'Szansa'                                                                   |
| ZW-France                                                                                       |
| ZWSOFT                                                                                          |
| ZWSOFT-Vietnam Futon Technology (Guangzhou) Co., Ltd. Jiangsu Architectural Design and Research |
| LG Display Nitrosoft Xinding Knife Manufacturing (Shenzhen) Co., Ltd.                           |
| China National Nuclear Corporation 404 Co., Ltd. Shaanxi Aircraft Industry Co., Ltd.            |
| Beijing Oriental Star Survey and Design Co., Ltd.                                               |
| Southeast University Architectural Design and Research Institute Co., Ltd.                      |
| Huzhou Huanfeng Machinery Co., Ltd.                                                             |
| Toyo Engineering (Shanghai) Co., Ltd.                                                           |
| China Academy of Building Research Co., Ltd. Guangdong Powerwo New Energy Technology Co., Ltd.  |
| ZWSOFT                                                                                          |
| Ruian Natural Resources and Planning Bureau                                                     |
| Changsha Planning and Design Institute Co., Ltd.                                                |
| Great Wall Motor Co., Ltd.                                                                      |
| ZW-France                                                                                       |
| Sunrise Eastern Holdings Co., Ltd.                                                              |
| ZWSOFT China Resources Gas Zhengzhou Engineering Construction Co., Ltd.                         |
| Nitrosoft                                                                                       |

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| Liansteel Precision Technology (China) Co., Ltd.                                                                                      |
| Liuzhou Chengfei Auto Parts Co., Ltd.                                                                                                 |
| Hangzhou Pinming Security Information Technology Co., Ltd.                                                                            |
| ZWSOFT-Vietnam                                                                                                                        |
| Saprsoft                                                                                                                              |
| Beijing Shanghua Software Co., Ltd.                                                                                                   |
| Shanghai Tonglei Civil Engineering Technology Co., Ltd.                                                                               |
| Nitrosoft China Railway Shanhaiguan Bridge Group Co., Ltd.                                                                            |
| Shanghai Jiahao Marine Engineering Research and Design Co., Ltd. Qingdao Zhongjing Design                                             |
| 3DLotus SIA                                                                                                                           |
| HOPE Technologies Pvt Ltd                                                                                                             |
| ZWSOFT                                                                                                                                |
| XIAN JIN TRADING COMPANY LIMITED                                                                                                      |
| Tyco Electronics                                                                                                                      |
| Tianzheng Building                                                                                                                    |
| Nitrosoft                                                                                                                             |
| Boluo County Kangdasheng Hardware Plastic Electronics Co., Ltd.                                                                       |
| Shanghai Tonglei Civil Engineering Technology Co., Ltd.                                                                               |
| ZWSOFT China Resources Gas Zhengzhou Engineering Construction Co., Ltd. China Resources Gas (Zhengzhou) Municipal Design and Research |
| Nitrosoft ZWSOFT                                                                                                                      |
| Huanyang Classic Culture Development (Shanghai) Co., Ltd. China Coal Technology and Engineering                                       |
| ZWSOFT-Vietnam                                                                                                                        |
| China Railway Design Group Co., Ltd.                                                                                                  |
| Ibercad, Ida. ZWSOFT-Middle East                                                                                                      |

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| Shenzhen Chaojinda Ultrasonic Engineering Equipment Co., Ltd. Far East Curtain Wall (Zhuhai) Co., Ltd. Dongguan Meichitu Industrial Co., Ltd. Tongli Technology Co., Ltd. Chonghui Semiconductor (Shenzhen) Co., Ltd. Guangdong Haiwu Technology Co., Ltd. |
| Changsha Planning Information Center                                                                                                                                                                                                                       |
| Boluo County Kangdasheng Hardware Plastic Electronics Co., Ltd.                                                                                                                                                                                            |
| TotalCAD Com. e Serv. em Informática Ltda.                                                                                                                                                                                                                 |
| Nitrosoft Guizhou Aerospace Fenghua Precision Equipment Co., Ltd.                                                                                                                                                                                          |
| Edilclima Srl                                                                                                                                                                                                                                              |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                                                                                                             |
| Nitrosoft Usługi Informatyczne 'Szansa' Yutian Industry (Shenzhen) Co., Ltd. Boluo County Kangdasheng Hardware Plastic Electronics Co., Ltd.                                                                                                               |
| Shanghai Tianhan Air Treatment Equipment Co., Ltd. Dongguan Xianyi Electronics Co., Ltd.                                                                                                                                                                   |
| Hangzhou Pinming Security Information Technology Co., Ltd.                                                                                                                                                                                                 |
| Usługi Informatyczne 'Szansa'                                                                                                                                                                                                                              |
| China Railway Fourth Survey and Design Institute Group Co., Ltd.                                                                                                                                                                                           |
| Xinding Knife Manufacturing (Shenzhen) Co., Ltd.                                                                                                                                                                                                           |
| Kunhua Environmental Protection Intelligent Technology (Guangdong) Co., Ltd.                                                                                                                                                                               |
| Huanyang Classic Culture Development (Shanghai) Co., Ltd. Muxing Robotics (Jiangsu) Co., Ltd. Hangzhou Foster Photovoltaic Power Generation                                                                                                                |
| Eti Bilgisayar Ltd.                                                                                                                                                                                                                                        |
| Beijing Bochao Times Software Co., Ltd. Suzhou Institute of Surveying and Mapping                                                                                                                                                                          |
| Nitrosoft 예가건축사사무소에이디선축사사무소                                                                                                                                                                                                                                |
| Eiseko Computers                                                                                                                                                                                                                                           |
| Shenzhen Guangming Construction Engineering Design Co., Ltd. Tongli Technology Co., Ltd.                                                                                                                                                                   |
| Nitrosoft                                                                                                                                                                                                                                                  |

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| Wuhan Municipal Engineering Design and Research Institute Co., Ltd. Guangdong Finney Technology Co., Ltd.                                                                                                                                                                                           |
| Beijing Kechuang Yida Software Technology Co., Ltd.                                                                                                                                                                                                                                                 |
| State Grid ZWSOFT                                                                                                                                                                                                                                                                                   |
| Zhongwang Machinery (Beijing)                                                                                                                                                                                                                                                                       |
| Nitrosoft                                                                                                                                                                                                                                                                                           |
| Hangzhou Pinming Security Information Technology Co., Ltd.                                                                                                                                                                                                                                          |
| Usługi Informatyczne 'Szansa'                                                                                                                                                                                                                                                                       |
| Guangzhou Shanshui Bide Design Co., Ltd.                                                                                                                                                                                                                                                            |
| Luban Software Co., Ltd. Beijing Gaojia Technology Co., Ltd.                                                                                                                                                                                                                                        |
| Yangtze Memory Technologies Co., Ltd.                                                                                                                                                                                                                                                               |
| ZW Architecture (Shanghai)                                                                                                                                                                                                                                                                          |
| Hongye Technology Co., Ltd. Zhejiang University of Technology Engineering Design Group Co., Ltd.                                                                                                                                                                                                    |
| Guilin Urban Planning and Design Institute                                                                                                                                                                                                                                                          |
| Wuhan Municipal Engineering Design and Research Institute Co., Ltd. Suzhou Qingyan Precision                                                                                                                                                                                                        |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                                                                                                                                                      |
| Encee CAD/CAM Systeme GmbH ZW-France ZWSOFT-Vietnam ZW Spain ZWSOFT-Middle East                                                                                                                                                                                                                     |
| Tianzheng Plumbing and Electricity                                                                                                                                                                                                                                                                  |
| Usługi Informatyczne 'Szansa' HOPE Technologies Pvt Ltd                                                                                                                                                                                                                                             |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                                                                                                                                                      |
| Eti Bilgisayar Ltd. ZWSOFT-Middle East                                                                                                                                                                                                                                                              |
| Shenzhen Paicheng Aluminum Technology Co., Ltd. Huanyang Classic Culture Development (Shanghai) Co., Ltd. Toyo Engineering (Shanghai) Co., Ltd. Nantong Jinghai HVAC Equipment Co., Ltd. Huizhou Sujiacke Group Co., Ltd. Nanjing Changjiang Urban Architectural Design Co., Ltd. Guangdong Desheng |

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| China Communications Construction Group Co., Ltd.<br>CCCC Highway Planning and Design Institute Co., Ltd.<br>Lichi Software (Suzhou) Co., Ltd. |
| Hangzhou Geyuan Information Technology Co., Ltd.                                                                                               |
| Edilclima Srl                                                                                                                                  |
| wetechsystem                                                                                                                                   |
| Huanyang Classic Culture Development (Shanghai)<br>Co., Ltd.                                                                                   |
| wetechsystem                                                                                                                                   |
| Lanzhou Nonferrous Metallurgy Design and<br>Research Institute Co., Ltd.                                                                       |
| Shiyuan Technology (Jiaxing) Medical Electronics<br>Co., Ltd.                                                                                  |
| Lanzhou Nonferrous Metallurgy Design and<br>Research Institute Co., Ltd.                                                                       |
| Shenzhen Click Technology Co., Ltd.                                                                                                            |
| Nitrosoft                                                                                                                                      |
| ZWSOFT                                                                                                                                         |
| CCCC Fourth Harbor Engineering Survey and Design<br>Institute Co., Ltd. China Communications<br>Construction Company Limited                   |
| Kunshan Yisheng Machinery Industry Co., Ltd.                                                                                                   |
| Guizhou Gui'an New District Dongjiang Technology<br>Co., Ltd.                                                                                  |
| Jiangxi Boyi New Technology Co., Ltd.                                                                                                          |
| Aedas Architectural Design Consultants (Beijing) Co.,<br>Ltd. Shenzhen Branch Dongguan Nice Machinery<br>Manufacturing Co., Ltd.               |
| Swiss All CAD                                                                                                                                  |
| Ningbo Tianxiang Xinhua Hydraulic Co., Ltd.                                                                                                    |
| CADSHELL Beijing Zhongwei Digital Communication<br>Software Co., Ltd.                                                                          |
| Nitrosoft Xinwanda Electronics Co., Ltd. Dongguan<br>Aqinuo Sensor Technology Co., Ltd. Fengtie Plastic                                        |
| Shanghai Urban Construction Design and Research<br>Institute (Group) Co., Ltd.                                                                 |

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| CCCC Fourth Harbor Engineering Survey and Design Institute Co., Ltd. China Communications Construction Company Limited                                 |
| China Railway Fourth Survey and Design Institute Group Co., Ltd.                                                                                       |
| Hangzhou Pinming Security Information Technology Co., Ltd.                                                                                             |
| TBM Software Ltd                                                                                                                                       |
| ZWSOFT-Mexico                                                                                                                                          |
| Huarong Technology Co., Ltd.                                                                                                                           |
| China Railway Fourth Survey and Design Institute Group Co., Ltd.                                                                                       |
| ZWSOFT Guangzhou Gaste Sealing Technology Co., Ltd.                                                                                                    |
| Guangdong Southern Digital Technology Co., Ltd.                                                                                                        |
| Beijing Times Municipal Engineering Co., Ltd.<br>Guangdong Desheng Electronics Co., Ltd.                                                               |
| ZW-France                                                                                                                                              |
| Swiss All CAD                                                                                                                                          |
| Nitrosoft Yantai CIMC Raffles Offshore Technology Group Co., Ltd. Dongguan Zhengde Connector Co.,                                                      |
| Nitrosoft                                                                                                                                              |
| ZWSOFT-Malaysia                                                                                                                                        |
| Nitrosoft                                                                                                                                              |
| TBM Software Ltd                                                                                                                                       |
| Dongguan Shushan Software Development Studio                                                                                                           |
| ZWSOFT Luban Software Co., Ltd.                                                                                                                        |
| Changshu Switch Manufacturing Co., Ltd. (formerly Changshu Switch Factory)                                                                             |
| CCCC Fourth Harbor Engineering Survey and Design Institute Co., Ltd. Guangzhou Yulong Auto Parts Co., Ltd. China Communications Construction Co., Ltd. |
| Nitrosoft                                                                                                                                              |
| Kale Environmental Technology (Shanghai) Co., Ltd.                                                                                                     |

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| TotalCAD Com. e Serv. em Informática Ltda. ZWSOFT          |
| Ardata design solusi ZWSOFT-Indonesia                      |
| ZWSOFT-Middle East                                         |
| ZWSOFT                                                     |
| Ruipu Lanjun Energy Co., Ltd.                              |
| Nitrosoft                                                  |
| Hongye Technology Co., Ltd. Beijing Zhongwei               |
| Digital Communication Software Co., Ltd. Chongqing         |
| Hangzhou Pinming Security Information Technology Co., Ltd. |
| HOPE Technologies Pvt Ltd Dongguan Keger                   |
| Precision Machinery Co., Ltd.                              |
| wetechsystem Shui On Construction (Zhuhai) Co., Ltd.       |
| ZW Spain Hitachi Elevator (China) Co., Ltd.                |
| Guangdong Caihong Laser Mold Technology Co., Ltd.          |
| Chonghui Semiconductor (Shenzhen) Co., Ltd.                |
| Beijing Extech Technology Co., Ltd.                        |
| XIAN JIN TRADING COMPANY LIMITED                           |
| Shenyang Tianyuan Technology Co., Ltd.                     |
| Wong Chi Ming Architectural Engineers Limited              |
| Nitrosoft Shanghai Jingxing Storage Equipment              |
| Engineering Co., Ltd. Guangzhou Zhiguang Energy            |
| Wong Chi Ming Architectural Engineers Limited              |
| Autofluid GeoMedia ZW-France Guangdong Nanfang             |
| Digital Technology Co., Ltd. Luban Software Co., Ltd.      |
| Beijing Gaojia Technology Co., Ltd. baezeni                |
| Zhejiang Daming New Materials Co., Ltd. Guangzhou          |
| Tongze Kangwei Technology Co., Ltd.                        |
| Ibercad, Ida.                                              |
| TotalCAD Com. e Serv. em Informática Ltda.                 |
| Guangzhou Hong Kong and China Gas Co., Ltd.                |
| Hangzhou Boyan Intelligent Optoelectronics Co., Ltd.       |
| Zhejiang Feida Machinery Co., Ltd. Shenzhen Digital        |
| Nitrosoft Taiwan Zhongwang Technology Co., Ltd.            |
| Shenzhen Magmet Electric Co., Ltd. Dongguan                |
| Yizhao Electronic Technology Co., Ltd. Nanchang            |

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| Sanrui Intelligent Technology Co., Ltd. Shenzhen                                                                                             |
| Piranusa                                                                                                                                     |
| Lichi Software (Suzhou) Co., Ltd. ZW Community                                                                                               |
| wetechsystem Sardegna Ingegneria Sca rl                                                                                                      |
| Shanghai Jiahao Marine Engineering Research and Design Co., Ltd.                                                                             |
| Nitrosoft ZWSOFT-Mexico ZWSOFT Changzhou Kuangda Weide Machinery Co., Ltd. Tianjin Jiurong Industrial Technology Co., Ltd. Guangdong Youlipu |
| Hangzhou Dianshang Architectural Decoration Design Co., Ltd.                                                                                 |
| ZWSOFT                                                                                                                                       |
| Zhenhai Petrochemical Construction Engineering Co., Ltd.                                                                                     |
| Taiwan ZW Technology Co., Ltd.                                                                                                               |
| Lichi Software (Suzhou) Co., Ltd.                                                                                                            |
| ZWSOFT Jiangsu Kobite Technology Co., Ltd.                                                                                                   |
| ZW Spain ZWSOFT-Middle East                                                                                                                  |
| Beijing Zhongwei Digital Communication Software Co., Ltd.                                                                                    |
| Guangzhou Shanshui Bide Design Co., Ltd.                                                                                                     |
| ZW-France                                                                                                                                    |
| ZW Spain                                                                                                                                     |
| ZWSOFT Dongguan Keyuda Electronic Technology Co., Ltd.                                                                                       |
| ZW-France                                                                                                                                    |
| Chongqing Rail Transit Design and Research Institute Co., Ltd. Guangzhou Metro Design and Research Institute Co., Ltd.                       |
| ZWSOFT                                                                                                                                       |
| CADServis Usługi Informatyczne 'Szansa' ZWSOFT Changsha Changtai Robotics Co., Ltd. Taicang Tongsheng Industrial Automation Co., Ltd.        |
| Usługi Informatyczne 'Szansa' ZW Spain                                                                                                       |

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| Fuzhou Architectural Design Institute Co., Ltd.                                                     |
| ZWSOFT                                                                                              |
| Dongguan Caihong Company                                                                            |
| ZW Spain Guangdong Meibo Refrigeration Equipment Co., Ltd.                                          |
| ZW Spain                                                                                            |
| Shanghai Jiejian Planning and Architectural Design Co., Ltd. China Railway Shanhaiguan Bridge Group |
| Suzhou Jiaotong University Group Co., Ltd.                                                          |
| Nitrosoft wetechsystem                                                                              |
| ZW Spain Hubei Shuangjian Blower Co., Ltd. Fuzhou Tianyu Electric Co., Ltd.                         |
| Shenzhen Weiertai Electronic Technology Co., Ltd.                                                   |
| CCCC Water Transport Planning and Design Institute Co., Ltd. Guangzhou Cable Factory Co., Ltd.      |
| GeoMedia                                                                                            |
| Chiyoda Electronics (Jiaxing) Co., Ltd.                                                             |
| Nitrosoft TCL Ruizhi (Huizhou) Refrigeration Equipment Co., Ltd.                                    |
| Foshan Henghe Electric Co., Ltd.                                                                    |
| ZWSOFT                                                                                              |
| Zhongwang Machinery                                                                                 |
| tiscali                                                                                             |
| Smart Unfold                                                                                        |
| ZWSOFT Changzhou Tonghe Textile Machinery Manufacturing Co., Ltd.                                   |
| Usługi Informatyczne 'Szansa'                                                                       |
| Saprsoft Usługi Informatyczne 'Szansa' Shanghai Enaisi Electric Co., Ltd.                           |
| ZW-France                                                                                           |
| ZWSOFT Hefei Urban Planning and Design Institute                                                    |
| Usługi Informatyczne 'Szansa' Decoemirtaes                                                          |

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| HOPE Technologies Pvt Ltd Zhejiang Jianke Architectural Design Institute Co., Ltd. Guangzhou Jingmei Aesthetic Design Co., Ltd. Youngor Fashion Co., Ltd.                                  |
| Kunshan Hongzhi Electronics Co., Ltd.                                                                                                                                                      |
| Usługi Informatyczne 'Szansa'                                                                                                                                                              |
| HOPE Technologies Pvt Ltd                                                                                                                                                                  |
| 3DLotus SIA                                                                                                                                                                                |
| ZWSOFT-Middle East                                                                                                                                                                         |
| Lichi Software (Suzhou) Co., Ltd.                                                                                                                                                          |
| ZWSOFT-Vietnam Huangshan Futian Precision Manufacturing Co., Ltd.                                                                                                                          |
| CAD-design Ltd.                                                                                                                                                                            |
| NiuYan Intelligent Logistics Equipment (Suzhou) Co., Ltd.                                                                                                                                  |
| ZWSOFT ZWSOFT-Malaysia Xinwanda Electronics Co., Ltd. Guangdong Finney Technology Co., Ltd. Huizhou Lanwei Electronics Co., Ltd. Foshan Shunde Xuetelang Electric Co., Ltd. Huizhou Mairui |
| ZW-France Sinopec Fourth Construction Co., Ltd.                                                                                                                                            |
| ZWSOFT                                                                                                                                                                                     |
| China Communications Construction Co., Ltd. CCCC Shanghai Waterway Survey and Design Institute Co.,                                                                                        |
| wetechsystem                                                                                                                                                                               |
| Nitrosoft ZW Spain                                                                                                                                                                         |
| Huanyang Classic Culture Development (Shanghai) Co., Ltd.                                                                                                                                  |
| CAD-design Ltd. Wuhu Rongji Sealing System Co., Ltd.                                                                                                                                       |
| Zhuzhou Chuangrui High-Strength Ceramics Co., Ltd.                                                                                                                                         |
| Suntech (Kunshan) Precision Parts Co., Ltd.                                                                                                                                                |
| Nitrosoft                                                                                                                                                                                  |
| Zhuhai Founder Printed Circuit Board Development Co., Ltd.                                                                                                                                 |
| HOPE Technologies Pvt Ltd                                                                                                                                                                  |

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| ZWSOFT-Middle East                                                                                                                                         |
| Nitrosoft                                                                                                                                                  |
| Jangho Group Co., Ltd.                                                                                                                                     |
| CCCC Fourth Harbor Engineering Survey and Design Institute Co., Ltd. China Communications Construction Company Limited                                     |
| ZWSOFT                                                                                                                                                     |
| Zhongwang Machinery Nanjing Magnetic Valley Technology Co., Ltd. Guangdong Xiaotiancai Technology Co., Ltd.                                                |
| rCheck                                                                                                                                                     |
| XIAN JIN TRADING COMPANY LIMITED ZWSOFT Ningbo Fotile Kitchenware Co., Ltd.                                                                                |
| Hunan Hengke Aluminum Technology Co., Ltd.                                                                                                                 |
| Chenzhou Friendship Apollo Commercial Investment Co., Ltd. Tongli Technology Co., Ltd.                                                                     |
| Zhejiang University of Technology Engineering Design Group Co., Ltd.                                                                                       |
| Nitrosoft                                                                                                                                                  |
| Sichuan Provincial Highway Planning, Survey and Design Institute Co., Ltd.                                                                                 |
| PT.Piranti Nusantara Teknologi ZWSOFT-Vietnam ZWSOFT-Middle East ZWSOFT-Indonesia Yangtze Memory Technologies Co., Ltd. Changsha Zhensheng Group Co., Ltd. |
| Usługi Informatyczne 'Szansa'                                                                                                                              |
| Xiamen Huadian Switchgear Co., Ltd.                                                                                                                        |
| Guangzhou Jingmei Aesthetic Design Co., Ltd.                                                                                                               |
| ZWSOFT                                                                                                                                                     |
| Beidou (Tianjin) Fixture Equipment Co., Ltd.                                                                                                               |
| Taiwan Zhongwang Technology Co., Ltd. Hitachi Elevator (China) Co., Ltd. Guangdong Yuehai Huajin Technology Co., Ltd.                                      |
| Nitrosoft                                                                                                                                                  |
| Sujiang Group Co., Ltd. Guangzhou Jingmei Aesthetic Design Co., Ltd.                                                                                       |

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| Taiwan Zhongwang Technology Co., Ltd. Southeast University Architectural Design and Research Institute Co., Ltd.                            |
| Changzhou Kuangda Weide Machinery Co., Ltd. Mianyang Heyuan Electric Power Equipment Co., Ltd. Shenzhen Fuming Precision Industry Co., Ltd. |
| Usługi Informatyczne 'Szansa'                                                                                                               |
| Xiamen Taikoo Aircraft Engineering Co., Ltd.                                                                                                |
| Huzhou Huanfeng Machinery Co., Ltd.                                                                                                         |
| China Merchants Jinling Shipbuilding (Weihai) Co., Ltd.                                                                                     |
| China Resources Gas Zhengzhou Engineering Construction Co., Ltd. Nanjing Surveying and Baosteel Engineering Technology Group Co., Ltd.      |
| Taiwan ZW Technology Co., Ltd.                                                                                                              |
| Sichuan Transportation Survey and Design Institute Co., Ltd.                                                                                |
| Xiamen Taikoo Aircraft Engineering Co., Ltd.                                                                                                |
| ZWSOFT                                                                                                                                      |
| Guangzhou Yulong Auto Parts Co., Ltd. Shenzhen Guangming Construction Engineering Design Co., Ltd.                                          |
| Usługi Informatyczne 'Szansa'                                                                                                               |
| Beijing Lizheng Software Co., Ltd.                                                                                                          |
| ZW-France ZWSOFT Guangzhou Chengzong Design Co., Ltd. Shenzhen Megmeet Electrical Co., Ltd.                                                 |
| ZWSOFT                                                                                                                                      |
| ZW-France                                                                                                                                   |
| Usługi Informatyczne 'Szansa'                                                                                                               |
| Hunan Teneng Bosch Technology Co., Ltd. Lichi Software (Suzhou) Co., Ltd.                                                                   |
| Sunny Optical Technology (Group) Co., Ltd.                                                                                                  |
| Usługi Informatyczne 'Szansa'                                                                                                               |
| Chutian Technology Co., Ltd.                                                                                                                |
| Zhongwang Machinery (Guangzhou)                                                                                                             |

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| ZWSOFT-Middle East                                                                                                                                                                                                                                                                     |
| ZW Spain                                                                                                                                                                                                                                                                               |
| Information about 'Szansa' China Communications Construction Group Co., Ltd. China Communications Construction Co., Ltd. CCCC Water Transport                                                                                                                                          |
| ZWSOFT-Middle East                                                                                                                                                                                                                                                                     |
| Zhejiang University of Technology Engineering Design Group Co., Ltd.                                                                                                                                                                                                                   |
| Nitrosoft                                                                                                                                                                                                                                                                              |
| Guangdong Southern Digital Technology Co., Ltd.                                                                                                                                                                                                                                        |
| APLITOP SL                                                                                                                                                                                                                                                                             |
| HOPE Technologies Pvt Ltd Gansu Hailin Zhongke Technology Co., Ltd.                                                                                                                                                                                                                    |
| Nanjing Shicheng Well Equipment Co., Ltd.                                                                                                                                                                                                                                              |
| ZW-France ZWSOFT-Vietnam ZWSOFT-Mexico<br>Zhejiang University of Technology Engineering Design Group Co., Ltd. Shenzhen Megmeet Electric Co., Ltd. Yangzhou Huahang Engineering Software Co., Ltd. Shenzhen Heyucheng Architectural Design Co., Ltd. Aedas Global Architectural Design |
| Zhejiang Yike Construction Technology Development Co., Ltd. Luoyang Zhongzhi Software Technology Co., Ltd.                                                                                                                                                                             |
| Zhejiang Bell Rail Equipment Co., Ltd.                                                                                                                                                                                                                                                 |
| Hangzhou Pinming Security Control Information Technology Co., Ltd. Guiyang Water Conservancy                                                                                                                                                                                           |
| CAD-design Ltd.                                                                                                                                                                                                                                                                        |
| CCCC Second Navigation Engineering Survey and Design Institute Co., Ltd.                                                                                                                                                                                                               |
| Chongqing BOE Optoelectronics Technology Co., Ltd. Wuxi Micro Research Co., Ltd. Guangdong Yuehai                                                                                                                                                                                      |
| Nanchang Sanrui Intelligent Technology Co., Ltd.                                                                                                                                                                                                                                       |
| Softline                                                                                                                                                                                                                                                                               |
| Zhuhai Yueya Semiconductor Co., Ltd. Dongguan Nice Machinery Manufacturing Co., Ltd.                                                                                                                                                                                                   |
| A.O. Smith (China) Water Heater Co., Ltd.                                                                                                                                                                                                                                              |
| Sichuan Transportation Survey and Design Institute Co., Ltd.                                                                                                                                                                                                                           |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                                                                                                                                         |

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| CivilCAD                                                                                                                                     |
| Nitrosoft                                                                                                                                    |
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| ZW-France                                                                                                                                    |
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| ZWSOFT-Middle East Decoemirtaes                                                                                                              |
| Eti Bilgisayar Ltd. Nitrosoft HOPE Technologies Pvt<br>Ltd Xinwanda Electronics Co., Ltd. Guangdong<br>Desheng Electronics Co., Ltd.         |
| ZWSOFT                                                                                                                                       |
| Usługi Informatyczne 'Szansa'                                                                                                                |
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| Dimitrios Exarchopolilos                                                                                                                     |
| cadsystems                                                                                                                                   |
| Nitrosoft                                                                                                                                    |
| Daqing Dexin Information Technology Service Co.,<br>Ltd. Zhejiang Chenxi Electric Co., Ltd.                                                  |
| CivilCAD                                                                                                                                     |
| China Communications Construction Co., Ltd. China<br>Communications Water Transport Planning and<br>Design Institute Co., Ltd.               |
| Toyo Engineering (Shanghai) Co., Ltd.                                                                                                        |
| Zhejiang University of Technology Engineering<br>Design Group Co., Ltd. Zhejiang Jianke Architectural<br>Design Institute Co., Ltd.          |
| Zhongwang Machinery (Guangzhou)                                                                                                              |
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| Taiwan ZW Technology Co., Ltd.                                                                                                               |
| Nitrosoft                                                                                                                                    |
| CIMC Deli Logistics System (Suzhou) Co., Ltd.<br>ZWSOFT-Middle East NAGAS DIGITAL COMPANY<br>LIMITED (ITSC) Jiangsu Architectural Design and |
| Fujian Chengyu Machinery Manufacturing Co., Ltd.<br>Guangdong Yuehai Huajin Technology Co., Ltd.                                             |
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| ZWSOFT                                                                                                                                       |

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| HOPE Technologies Pvt Ltd Sobha Facades                                                                                             |
| China Communications Construction Co., Ltd. China Communications Highway Planning and Design Institute Co., Ltd.                    |
| Shenzhen Heyucheng Architectural Design Co., Ltd.                                                                                   |
| PT.Piranti Nusantara Teknologi ZWSOFT-Indonesia                                                                                     |
| Nitrosoft                                                                                                                           |
| HOPE Technologies Pvt Ltd                                                                                                           |
| Shicang Intelligent Storage Equipment (Shanghai) Co., Ltd. Huizhou Kelike Electronics Co., Ltd. Guangdong Keyuan Electric Co., Ltd. |
| JIDI DESIGN GROUP LIMITED                                                                                                           |
| Zhongwang Building                                                                                                                  |
| Zhenjiang Siemens Busbar Co., Ltd.                                                                                                  |
| Hangzhou Hongsheng Electric Power Design Consulting Co., Ltd.                                                                       |
| Fuzhou Architectural Design Institute Co., Ltd.                                                                                     |
| Luban Software Co., Ltd.                                                                                                            |
| Xi'an Zhongxian Software Technology Co., Ltd. Luxshare Technology                                                                   |
| ZW Spain Anhui Ruiyou Automation Technology Co., Ltd.                                                                               |
| Zhongwang Building                                                                                                                  |
| HOPE Technologies Pvt Ltd                                                                                                           |
| Guangdong Kaijin New Energy Technology Co., Ltd.                                                                                    |
| Jiangxi Post and Telecommunications Construction Engineering Co., Ltd.                                                              |
| tiscali                                                                                                                             |
| Eti Bilgisayar Ltd. Nitrosoft                                                                                                       |
| GEOSOFT doo Usługi Informatyczne 'Szansa' ZWSOFT Ardata design solusi ZWSOFT-Indonesia                                              |
| Nitrosoft                                                                                                                           |
| CHAM-JAPAN Oshima Shipbuilding Mia Precision                                                                                        |

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| Metal Technology (Dongguan) Co., Ltd. JSTI Group Co., Ltd. Sunny Optical Technology (Group) Co., Ltd.                                                                                                                                    |
| Suzhou Jiaotong University Group Co., Ltd.                                                                                                                                                                                               |
| Changsha Planning Information Center                                                                                                                                                                                                     |
| Beijing Gaojia Technology Co., Ltd. Guangzhou Planck Industrial Equipment Co., Ltd.                                                                                                                                                      |
| ZW Spain                                                                                                                                                                                                                                 |
| Casappa Hydraulics (Shanghai) Co., Ltd.                                                                                                                                                                                                  |
| ZWSOFT-Vietnam                                                                                                                                                                                                                           |
| Information about 'Szansa' ZW-France CCCC Fourth Harbor Engineering Survey and Design Institute Co., Ltd. ZWSOFT China Communications Construction Co., Ltd.                                                                             |
| ZWSOFT-Middle East                                                                                                                                                                                                                       |
| ACERI                                                                                                                                                                                                                                    |
| Nitrosoft                                                                                                                                                                                                                                |
| ZWSOFT                                                                                                                                                                                                                                   |
| ZWSOFT-Japan                                                                                                                                                                                                                             |
| Wuxi Hongsheng Heat Exchanger Manufacturing Co., Ltd. Sujiaoke Group Co., Ltd.                                                                                                                                                           |
| Hitachi Elevator (China) Co., Ltd. Hangzhou Zhiwuda Technology Co., Ltd. Foshan Yuantian Bedding Machinery Co., Ltd. Guangdong Keyuan Electric Co., Ltd. Guangzhou Faner Fragrance Daily Necessities Co., Ltd.                           |
| Shanghai Post and Telecommunications Design Consulting Institute Co., Ltd. CIMC Vehicles Terabyte Car Body Manufacturing (Jiangmen) Co., Ltd. Dongguan Nice Machinery Manufacturing Co., Ltd. Zhuhai Juneng Precision Industry Co., Ltd. |
| Zhongwang Machinery (Guangzhou)                                                                                                                                                                                                          |
| ZW Spain ZWSOFT                                                                                                                                                                                                                          |
| TBM Software Ltd                                                                                                                                                                                                                         |
| ZWSOFT-Vietnam ZWSOFT-Middle East Galfar                                                                                                                                                                                                 |
| Zhejiang University of Technology Engineering Design Group Co., Ltd.                                                                                                                                                                     |
| Nitrosoft cadsystems                                                                                                                                                                                                                     |

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| ZWindia                                                                                                                                               |
| Xi'an Zhongxian Software Technology Co., Ltd.<br>Luxshare Technology                                                                                  |
| ZWSOFT                                                                                                                                                |
| Zhongwang Building                                                                                                                                    |
| ZWSOFT                                                                                                                                                |
| Hempel Paints (Guangzhou) Co., Ltd.                                                                                                                   |
| XIAN JIN TRADING COMPANY LIMITED                                                                                                                      |
| Zhongwang Building                                                                                                                                    |
| Shanghai Zhenhua Heavy Industries (Group) Co., Ltd.                                                                                                   |
| China Electronics Technology Group Corporation No.<br>50 Research Institute Dongguan Zhengde Connector<br>Co., Ltd.                                   |
| Beijing Chengchuangshiji Technology Development<br>Co., Ltd.                                                                                          |
| ZW-France                                                                                                                                             |
| Xi'an Zhongxian Software Technology Co., Ltd.<br>Beijing Chengchuangshiji Technology Development<br>Co., Ltd.                                         |
| SARL PMS3D                                                                                                                                            |
| Chongqing Hitech Technology Development Co., Ltd.<br>Hangzhou Geyuan Information Technology Co., Ltd.<br>Beijing Jianshe Digital Technology Co., Ltd. |
| Nitrosoft                                                                                                                                             |
| Usługi Informatyczne 'Szansa'                                                                                                                         |
| Aedas Architectural Design Consultants (Beijing) Co.,<br>Ltd. Shenzhen Branch                                                                         |
| ZW-France                                                                                                                                             |
| China Communications Construction Company<br>Limited China Communications First Highway Survey<br>and Design Institute Co., Ltd.                      |
| Nitrosoft                                                                                                                                             |
| China Power Construction Group Guiyang Survey<br>and Design Institute Co., Ltd.                                                                       |
| Taiwan ZW Technology Co., Ltd.                                                                                                                        |
| TotalCAD Com. e Serv. em Informática Ltda. ZW<br>Spain Arch Lab sro                                                                                   |

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| Guangzhou Liby (Panyu) Co., Ltd. Far East Curtain Wall (Zhuhai) Co., Ltd. Dongguan Zhengde Connector Co., Ltd.                           |
| TotalCAD Com. e Serv. em Informática Ltda.                                                                                               |
| GEOSOFT doo                                                                                                                              |
| ZW-France                                                                                                                                |
| ZWSOFT                                                                                                                                   |
| PT.Piranti Nusantara Teknologi ZWSOFT-Indonesia                                                                                          |
| Zhejiang Jianke Architectural Design Institute Co., Ltd. Xinwanda Electronics Co., Ltd. Guangdong Hengji Metal Co., Ltd.                 |
| CCCC Second Navigation Engineering Survey and Design Institute Co., Ltd.                                                                 |
| Luoyang Jietu Software Co., Ltd.                                                                                                         |
| Shenzhen Huayang International Engineering Design Co., Ltd.                                                                              |
| Shandong Shanda Huatian Software Co., Ltd.                                                                                               |
| ZWSOFT                                                                                                                                   |
| Zhongwang Building                                                                                                                       |
| ZW-France                                                                                                                                |
| HOPE Technologies Pvt Ltd                                                                                                                |
| ZWSOFT                                                                                                                                   |
| Nitrosoft                                                                                                                                |
| China Municipal Engineering Southwest Design and Research Institute Co., Ltd.                                                            |
| Shanghai Paipin Software Co., Ltd.                                                                                                       |
| Changqing Engineering Design Co., Ltd.                                                                                                   |
| ZWSOFT                                                                                                                                   |
| Taiwan ZW Technology Co., Ltd.                                                                                                           |
| Zhongwang Machinery                                                                                                                      |
| Kunshan Jisixuan Mould Technology Co., Ltd.<br>ZWSOFT Shenzhen Xinwei Communication Co., Ltd.<br>Guangdong Macro Gas Appliance Co., Ltd. |

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| ZW-France                                                                                                                                                                            |
| Beijing Zhongke Fulong Intelligent Technology Co., Ltd.                                                                                                                              |
| Nitrosoft                                                                                                                                                                            |
| Zhongwang Building                                                                                                                                                                   |
| Decovision                                                                                                                                                                           |
| Zhongwang Building                                                                                                                                                                   |
| CRRZ Zhuzhou Electric Locomotive Research Institute Co., Ltd.                                                                                                                        |
| Nitrosoft                                                                                                                                                                            |
| Zhejiang Jianke Architectural Design Institute Co., Ltd.                                                                                                                             |
| ZWSOFT ZWSOFT-Malaysia                                                                                                                                                               |
| ZW Spain                                                                                                                                                                             |
| Nitrosoft ZWSOFT-Vietnam                                                                                                                                                             |
| Sichuan Provincial Highway Planning, Survey and Design Institute Co., Ltd.                                                                                                           |
| CCCC Fourth Harbor Engineering Survey and Design Institute Co., Ltd. China Communications Construction Company Limited                                                               |
| Southeast University Architectural Design and Research Institute Co., Ltd. Jiedi Design Group Co.,                                                                                   |
| Huanyang Classic Culture Development (Shanghai) Co., Ltd.                                                                                                                            |
| Nitrosoft                                                                                                                                                                            |
| Usługi Informatyczne 'Szansa'                                                                                                                                                        |
| Xinwanda Electronics Co., Ltd. Daxiang Architectural Design Co., Ltd. Guangzhou Wanbao Group Refrigerator Co., Ltd. Guangdong Hengji Metal Co., Ltd. Shenzhen Sanyang Axle Co., Ltd. |

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| Shenzhen Click Technology Co., Ltd.                                                                                               |
| Jiangsu Xiangneng Technology Development Co., Ltd.                                                                                |
| Kunshan Jisixuan Mould Technology Co., Ltd.<br>Shenzhen Xinwei Communication Co., Ltd.<br>Guangdong Macro Gas Appliance Co., Ltd. |
| Encee CAD/CAM Systeme GmbH                                                                                                        |
| Futon Technology (Guangzhou) Co., Ltd. Xinwanda Electronics Co., Ltd. Aedas Global Architectural                                  |
| Ibercad, Ida.                                                                                                                     |
| Nitrosoft                                                                                                                         |
| Daqing Oilfield Co., Ltd.                                                                                                         |
| Guangdong Boheng Metal Products Co., Ltd.                                                                                         |
| Hpb Energy Systems                                                                                                                |
| Yangtze Memory Technologies Co., Ltd.                                                                                             |
| Chutian Technology Co., Ltd.                                                                                                      |
| ZW Spain                                                                                                                          |
| Wuxi Ruitong Precision Mould Co., Ltd.                                                                                            |
| Elephant Architectural Design Co., Ltd.                                                                                           |
| Piranusa                                                                                                                          |
| ZWSOFT-Mexico                                                                                                                     |
| Taiwan ZW Technology Co., Ltd.                                                                                                    |
| Yangtze Memory Technologies Co., Ltd.                                                                                             |
| Zhejiang Provincial Architectural Design Institute Co., Ltd. TCL Ruizhi (Huizhou) Refrigeration Equipment Co., Ltd.               |
| Beijing Cross Century Software Technology Co., Ltd.                                                                               |
| CivilCAD                                                                                                                          |
| Elephant Architectural Design Co., Ltd.                                                                                           |
| AddoSoft                                                                                                                          |

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| Shenzhen Keweida Ultrasonic Equipment Co., Ltd.                                                                       |
| Taiwan ZW Technology Co., Ltd.                                                                                        |
| Nitrosoft                                                                                                             |
| ZWSOFT                                                                                                                |
| Luoyang Zhongzhi Software Technology Co., Ltd.                                                                        |
| Zhejiang University of Technology Engineering Design Group Co., Ltd.                                                  |
| Tianjin Wanfeng Chemical Equipment Co., Ltd.                                                                          |
| Zhejiang University of Technology Engineering Design Group Co., Ltd.                                                  |
| Zhongwang Building                                                                                                    |
| Dongguan Shushan Software Development Studio                                                                          |
| ZWSOFT                                                                                                                |
| Jiangsu Provincial Institute of Architecture Jiangsu Provincial Architectural Design and Research Institute Co., Ltd. |
| Changzhou Natural Resources and Planning Bureau                                                                       |
| ZWSOFT Dongguan Yutong Optical Technology Co., Ltd.                                                                   |
| CCCC Third Navigation Engineering Survey and Design Institute Co., Ltd.                                               |
| Sobha Facades                                                                                                         |
| Yangtze Memory Technologies Co., Ltd. Jiedi Design Group Co., Ltd.                                                    |
| Guangzhou Shanshui BiDe Design Co., Ltd. Yike Technology (Dongguan) Co., Ltd.                                         |
| Beijing Xinya Municipal Construction Engineering Co., Ltd.                                                            |

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| Jangho Construction Group Co., Ltd. Zhongshan Dama Auto Parts Co., Ltd. Zhejiang University of Technology Engineering Design Group Co., Ltd. China Railway Shanhaiguan Bridge Group Co., Ltd. Southeast University Architectural Design and Research Institute Co., Ltd. China Tianchen Engineering Co., Ltd. Zhejiang Jianke Architectural Design Institute Co., Ltd. Jiangsu Architectural Design and Research Institute Co., Ltd. Nanjing Changjiang Urban Architectural Design Co., Ltd. China Academy of Art Landscape Architecture Design and Research Institute Co., Ltd. Huizhou Mairui Optoelectronics Co., Ltd. Huizhou Haige Technology Co., Ltd. |
| Shenzhen Megmeet Electric Co., Ltd. Dongguan Yutong Optical Technology Co., Ltd. Sunny Optical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Guilin Urban Planning and Design Institute                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Guangzhou Delong Electronic Devices Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| HOPE Technologies Pvt Ltd Shenzhen Xipni Precision Technology Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ZWSOFT-Vietnam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Elephant Architectural Design Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Zhejiang Jianke Architectural Design Institute Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Birocom2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Jiangsu Architectural Design and Research Institute Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ZWSOFT Softline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Yongsi Electronics (Ningbo) Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Usługi Informatyczne 'Szansa'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Nitrosoft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| COFELY AXIMA ZW-France Fujian Nanping Aluminum Co., Ltd. Shanghai Paipin Software Co., Ltd. QFCAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Guangzhou Shanshui BiDe Design Co., Ltd. Guangdong Tianruide New Energy Technology Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ZWSOFT-Vietnam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| GEOSOFT doo Kingfa Technology Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Far East Curtain Wall (Zhuhai) Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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| Nitrosoft                                                                                                                                                                                                                                                     |
| HOPE Technologies Pvt Ltd                                                                                                                                                                                                                                     |
| Yongsi Electronics (Ningbo) Co., Ltd.                                                                                                                                                                                                                         |
| ZWSOFT-Vietnam CPAS Nanjing Changjiang Urban Architectural Design Co., Ltd. Guangdong Desheng Electronics Co., Ltd.                                                                                                                                           |
| ZWSOFT                                                                                                                                                                                                                                                        |
| Haiting (Nantong) Shipbuilding Co., Ltd. Kingfa Technology Co., Ltd. Shenzhen Xipni Precision Technology Co., Ltd.                                                                                                                                            |
| ZWSOFT-Japan                                                                                                                                                                                                                                                  |
| Rifeng Enterprise Group Co., Ltd. Changyuan Shenrui Jibao Automation Co., Ltd. Heshan Kaixin Intelligent Manufacturing Industrial Co., Ltd.                                                                                                                   |
| ZWSOFT-Malaysia Dongguan Jingwo Electronic Technology Co., Ltd.                                                                                                                                                                                               |
| CIMC Vehicles Terabyte Car Body Manufacturing (Jiangmen) Co., Ltd. Jiangsu Chaoli Electric Co., Ltd. Kingfa Technology Co., Ltd. Shengye Electric Co., Ltd.                                                                                                   |
| ZWSOFT                                                                                                                                                                                                                                                        |
| Changzhou Natural Resources and Planning Bureau                                                                                                                                                                                                               |
| Guangzhou Shenxing Automation Equipment Co., Ltd.                                                                                                                                                                                                             |
| Elephant Architectural Design Co., Ltd.                                                                                                                                                                                                                       |
| Nitrosoft                                                                                                                                                                                                                                                     |
| Aedas Architectural Design Consultants (Beijing) Co., Ltd. Shenzhen Branch                                                                                                                                                                                    |
| Taizhou Xingxing Optoelectronics Technology Co., Ltd.                                                                                                                                                                                                         |
| Shanxi Motor Manufacturing Co., Ltd. Guangdong Jucheng Intelligent Technology Co., Ltd.                                                                                                                                                                       |
| ZWSOFT-Malaysia                                                                                                                                                                                                                                               |
| 3DLotus SIA                                                                                                                                                                                                                                                   |
| ZWSOFT Shenzhen Pincheng Metal Products Co., Ltd. Guangdong Jucheng Intelligent Technology Co., Ltd. Guangdong Rixin High Precision Technology Co., Ltd. Dongguan Nice Machinery Manufacturing Co., Ltd. Shenzhen Great Wall Development Technology Co., Ltd. |
| Dalian Alice Living Products Co., Ltd.                                                                                                                                                                                                                        |

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| ZWSOFT Shenzhen Yilaidun Technology Co., Ltd.                                                                                                                                                                                   |
| Guangzhou Shanshui BiDe Design Co., Ltd. Tongli Technology Co., Ltd.                                                                                                                                                            |
| Nitrosoft                                                                                                                                                                                                                       |
| Jiangsu Architectural Design and Research Institute Co., Ltd.                                                                                                                                                                   |
| ZWSOFT Guangdong Finney Technology Co., Ltd. Guangdong Meibo Refrigeration Equipment Co., Ltd.                                                                                                                                  |
| XIAN JIN TRADING COMPANY LIMITED Xinwanda Electronics Co., Ltd. Shenzhen Zhifenling Technology Co., Ltd. Shenzhen Yilaidun Technology Co., Ltd. Guangdong Haiwu Technology Co., Ltd. Zhongshan Meitu Plastic Industry Co., Ltd. |
| Xi'an Zhongxian Software Technology Co., Ltd.                                                                                                                                                                                   |
| Jiangsu Architectural Design and Research Institute Co., Ltd.                                                                                                                                                                   |
| Shanxi Motor Manufacturing Co., Ltd.                                                                                                                                                                                            |
| Jiangyin Hexin Mould Manufacturing Co., Ltd. Shenzhen Detongxing Electronics Co., Ltd. Guangzhou Wanbao Group Refrigerator Co., Ltd.                                                                                            |
| Nitrosoft                                                                                                                                                                                                                       |
| Information about 'Szansa' Aedas Architectural Design Consultants (Beijing) Co., Ltd. Shenzhen                                                                                                                                  |
| Southeast University Architectural Design and Research Institute Co., Ltd.                                                                                                                                                      |
| Nitrosoft                                                                                                                                                                                                                       |
| EPLANT                                                                                                                                                                                                                          |
| CCCC Second Highway Survey and Design Institute Co., Ltd.                                                                                                                                                                       |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                                                                                  |
| Shenzhen Megmeet Electric Co., Ltd. Zhejiang Tongpu Automation Equipment Co., Ltd. Shenzhen Yilaidun Technology Co., Ltd.                                                                                                       |
| Nanjing University (Changshu) Research Institute Co., Ltd. State Grid Tianjin Electric Power Company                                                                                                                            |
| Nitrosoft                                                                                                                                                                                                                       |
| Aedas Architectural Design Consultants (Beijing) Co., Ltd. Shenzhen Branch                                                                                                                                                      |
| Nitrosoft                                                                                                                                                                                                                       |

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| China Communications Construction Group Co., Ltd.<br>China Communications Construction Co., Ltd. CCCC<br>First Navigation Engineering Survey and Design<br>Institute Co., Ltd.                                                                              |
| China Railway Design Group Co., Ltd. Shenzhen<br>Heyucheng Architectural Design Co., Ltd. Jiangsu<br>Architectural Design and Research Institute Co., Ltd.<br>Guangdong Dongjian Automobile Technology Co.,<br>Ltd. Guangdong Desheng Electronics Co., Ltd. |
| China Communications Construction Group Co., Ltd.<br>China Communications Construction Co., Ltd. China<br>Communications Water Transport Planning and<br>Design Institute Co., Ltd.                                                                         |
| Nitrosoft Guangdong Desheng Electronics Co., Ltd.                                                                                                                                                                                                           |
| GEOSOFTE doo                                                                                                                                                                                                                                                |
| Encee CAD/CAM Systeme GmbH                                                                                                                                                                                                                                  |
| State Grid Anhui Electric Power Co., Ltd.                                                                                                                                                                                                                   |
| Hangzhou Foster Photovoltaic Power Generation<br>Co., Ltd. Zhejiang Lvyuan Electric Vehicle Co., Ltd.                                                                                                                                                       |
| 3DLotus SIA                                                                                                                                                                                                                                                 |
| Scholes Electronics Enterprise (Zhongshan) Co., Ltd.<br>Shenzhen Great Wall Development Technology Co.,<br>Ltd.                                                                                                                                             |
| Usługi Informatyczne 'Szansa' ZWCAD Distribution<br>srl                                                                                                                                                                                                     |
| 3DLotus SIA Shenzhen Baker Synthetic Rubber<br>Technology Co., Ltd. Zhongshan Meitu Plastic<br>Industry Co., Ltd.                                                                                                                                           |
| Nitrosoft                                                                                                                                                                                                                                                   |
| ZWSOFT Shenzhen Zhishang Technology Co., Ltd.                                                                                                                                                                                                               |
| Nitrosoft                                                                                                                                                                                                                                                   |
| ZWSOFT-Vietnam                                                                                                                                                                                                                                              |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                                                                                                              |

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| CIMC Vehicles Terabyte Car Body Manufacturing (Jiangmen) Co., Ltd. Huzhou Gas Co., Ltd. Guangdong Desheng Electronics Co., Ltd. |
| Guangzhou Metro Design and Research Institute Co., Ltd.                                                                         |
| Zhongwang Machinery (Guangzhou)                                                                                                 |
| ZWSOFT Shanghai Elite Metal Building System Co., Ltd.                                                                           |
| TBM Software Ltd Usługi Informatyczne 'Szansa'                                                                                  |
| Shenzhen Konnet Technology Co., Ltd.                                                                                            |
| Nitrosoft                                                                                                                       |
| ZWSOFT                                                                                                                          |
| Jiangsu Architectural Design and Research Institute Co., Ltd.                                                                   |
| TotalCAD Com. e Serv. em Informática Ltda. ZW Spain Shenzhen Aite Network Technology Co., Ltd.                                  |
| Elephant Architectural Design Co., Ltd.                                                                                         |
| EnterPlant                                                                                                                      |
| TsaiPress Guangdong Macro Gas Appliance Co., Ltd. Midea Group Co., Ltd.                                                         |
| Huanyang Classic Culture Development (Shanghai) Co., Ltd.                                                                       |
| Taiwan Zhongwang Technology Co., Ltd. Elephant Architectural Design Co., Ltd.                                                   |
| Taiwan ZW Technology Co., Ltd.                                                                                                  |
| ZWSOFT-Japan                                                                                                                    |
| ZWSOFT-Indonesia                                                                                                                |
| Taiwan ZW Technology Co., Ltd.                                                                                                  |
| Ningbo Fotile Kitchenware Co., Ltd.                                                                                             |
| Elephant Architectural Design Co., Ltd.                                                                                         |
| Elephant Architectural Design Co., Ltd. Guangzhou Zhiguang Electrical Technology Co., Ltd.                                      |
| Suzhou Xinwu Optoelectronics Co., Ltd.                                                                                          |
| Shengyin Optoelectronics (Kunshan) Co., Ltd.                                                                                    |
| Nitrosoft Sunwoda Electronics Co., Ltd. Guangdong Hengji Metal Co., Ltd.                                                        |
| Taiwan ZW Technology Co., Ltd.                                                                                                  |

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| Daqing Oilfield Co., Ltd.                                                                                                                                                                                                |
| CCCC Second Harbor Engineering Bureau Co., Ltd.                                                                                                                                                                          |
| CCCC Second Highway Survey and Design Institute Co., Ltd. Guangzhou Zhiguang Electrical Technology Co., Ltd. Guangzhou Zhiguang Energy Storage Technology Co., Ltd. Shenzhen Baker Synthetic Rubber Technology Co., Ltd. |
| Nitrosoft Daxiang Architectural Design Co., Ltd. Nanjing Changjiang Urban Architectural Design Co., Ltd. Guangzhou Zhiguang Energy Storage Technology Co., Ltd.                                                          |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                                                                           |
| Guangzhou Zhiguang Energy Storage Technology Co., Ltd. Shengyin Optoelectronics (Kunshan) Co., Ltd. Shenzhen Baker Synthetic Rubber Technology Co., Ltd.                                                                 |
| Aedas Architectural Design Consultants (Beijing) Co., Ltd. Shenzhen Branch                                                                                                                                               |
| GAIN Software GmbH                                                                                                                                                                                                       |
| Daxiang Architectural Design Co., Ltd. Nanjing Changjiang Urban Architectural Design Co., Ltd.                                                                                                                           |
| TCL Ruizhi (Huizhou) Refrigeration Equipment Co., Ltd. Guangdong Youlipu IoT Technology Co., Ltd.                                                                                                                        |
| Nitrosoft                                                                                                                                                                                                                |
| Zhongwang Community                                                                                                                                                                                                      |
| Postal Science Research and Planning Institute Co., Ltd.                                                                                                                                                                 |
| Xi'an Zhongxian Software Technology Co., Ltd.                                                                                                                                                                            |
| Postal Science Research and Planning Institute Co., Ltd.                                                                                                                                                                 |
| ZWSOFT                                                                                                                                                                                                                   |
| ZW-France                                                                                                                                                                                                                |
| ZWSOFT Nanjing Changjiang Urban Architectural Design Co., Ltd. Shenzhen Detongxing Electronics Co., Ltd.                                                                                                                 |
| Lingwang Elevator Co., Ltd.                                                                                                                                                                                              |

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| Elephant Architectural Design Co., Ltd. Ecological Developer                                                                            |
| Swiss All CAD                                                                                                                           |
| ZWSOFT Taian Boxian Lingwang Elevator Co., Ltd.                                                                                         |
| Anhui Architectural Design and Research Institute                                                                                       |
| Nanjing Changjiang Urban Architectural Design Co., Ltd.                                                                                 |
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| Zhejiang Dafeng Industrial Co., Ltd.                                                                                                    |
| Kecht-IT-Computersystem GmbH                                                                                                            |
| Nitrosoft                                                                                                                               |
| Shenzhen Heyucheng Architectural Design Co., Ltd.                                                                                       |
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| ZW Spain                                                                                                                                |
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| Guangzhou Shanshui Bide Design Co., Ltd.                                                                                                |
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| Zhongwang Machinery                                                                                                                     |
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| Shanghai Paipin Software Co., Ltd.                                                                                                      |
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| Yangzhou COSCO Shipping Heavy Industry Co., Ltd.                                                                                        |
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| Beijing Bochao Times Software Co., Ltd.                                                                                                 |
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| Nitrosoft                                                                                                                               |
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| Birocom2000 Elephant Architectural Design Co., Ltd.                                                                                     |
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| Nitrosoft                                                                                                                               |
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| ZW-France                                                                                                                               |
| ZWSOFT                                                                                                                                  |
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| Taier Heavy Industry Co., Ltd.                                                                                                          |
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| Xi'an Zhongxian Software Technology Co., Ltd.                                                                                           |
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| CIMC Vehicles Terabyte Car Body Manufacturing (Jiangmen) Co., Ltd. Shenzhen Ronghua Anjun Mechanical and Electrical Equipment Co., Ltd. |
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| Encee CAD/CAM Systeme GmbH                                                                                                              |
| Shanghai Construction Second Construction Group Co., Ltd.                                                                               |

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| Nanjing Changjiang Urban Architectural Design Co., Ltd.                                                                                       |
| Nitrosoft                                                                                                                                     |
| Nitrosoft CIMC Vehicles Terabyte Car Body Manufacturing (Jiangmen) Co., Ltd.                                                                  |
| Nitrosoft Shenzhen Guangming Construction Engineering Design Co., Ltd.                                                                        |
| CIMC Vehicles Terabyte Car Body Manufacturing (Jiangmen) Co., Ltd. Shenzhen Anshi New Energy Technology Co., Ltd.                             |
| Zhongwang Machinery (Guangzhou)                                                                                                               |
| China Academy of Art Landscape Architecture Design Research Institute Co., Ltd. Taizhou Ocean Investment Development Group Co., Ltd. Shenzhen |
| ZWSOFT-Malaysia                                                                                                                               |
| Dongguan Langxing Curtain Wall Aluminum Doors and Windows Co., Ltd.                                                                           |
| China Offshore Engineering Equipment Technology Development Co., Ltd.                                                                         |
| ZWSOFT                                                                                                                                        |
| PT.Piranti Nusantara Teknologi ZWSOFT-Vietnam                                                                                                 |
| Taiwan ZW Technology Co., Ltd.                                                                                                                |
| Aedas Architectural Design Consultants (Beijing) Co., Ltd. Shenzhen Branch Elephant Architectural Design                                      |
| Huanyang Classic Culture Development (Shanghai) Co., Ltd.                                                                                     |
| HOPE Technologies Pvt Ltd Adnan Saffarini ZWSOFT-Middle East Shenzhen Baolijie Technology Co., Ltd.                                           |
| ZWSOFT                                                                                                                                        |
| Zhongwang Machinery (Guangzhou) Zhongwang Machinery                                                                                           |
| PT.Piranti Nusantara Teknologi                                                                                                                |
| ZWSOFT                                                                                                                                        |
| Taier Heavy Industry Co., Ltd.                                                                                                                |
| Central de Soluciones Tecnologia & Software Ltda. Steel Industry (Shanghai) Co., Ltd.                                                         |
| ZWSOFT-Japan                                                                                                                                  |
| HOPE Technologies Pvt Ltd                                                                                                                     |
| Tsuneishi Shipbuilding Shenzhen Jundingda New Materials Co., Ltd.                                                                             |
| CADServis ZW Spain                                                                                                                            |
| Jiangsu Architectural Design and Research Institute Co., Ltd.                                                                                 |

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| Shanghai Paipin Software Co., Ltd.                                                                                                                              |
| Aedas Architectural Design Consultants (Beijing) Co., Ltd. Shenzhen Branch Foshan Natural Resources                                                             |
| Changzhou Tonghe Textile Machinery Manufacturing Co., Ltd.                                                                                                      |
| Nitrosoft                                                                                                                                                       |
| Shanghai Jiyu Intelligent Technology Co., Ltd.                                                                                                                  |
| ZWSOFT                                                                                                                                                          |
| Ibercad, Ida.                                                                                                                                                   |
| CADServis                                                                                                                                                       |
| Hebei Dingci Electronic Technology Co., Ltd.                                                                                                                    |
| Guangdong Hengji Metal Co., Ltd.                                                                                                                                |
| Guangdong Hengji Metal Co., Ltd. Dalian Innovation Parts Manufacturing Co., Ltd. Shenzhen Kunju Industrial Co., Ltd. Zhongshan Meitu Plastic Industry Co., Ltd. |
| Taiwan ZW Technology Co., Ltd.                                                                                                                                  |
| Guangzhou Shanshui BiDe Design Co., Ltd. Shenzhen Baolijie Technology Co., Ltd. Zhongshan Junwei Electric Co., Ltd.                                             |
| Ilancad                                                                                                                                                         |
| Eti Bilgisayar Ltd.                                                                                                                                             |
| CADServis                                                                                                                                                       |
| Encee CAD/CAM Systeme GmbH                                                                                                                                      |
| wetechsystem                                                                                                                                                    |
| China Railway Shanghai Design Institute Group Co., Ltd.                                                                                                         |
| ZW Spain                                                                                                                                                        |
| Elephant Architectural Design Co., Ltd.                                                                                                                         |
| CCCC Second Highway Survey and Design Institute Co., Ltd. Heshan Xueerda Refrigeration Equipment Co., Ltd.                                                      |
| DScom                                                                                                                                                           |
| Elephant Architectural Design Co., Ltd.                                                                                                                         |
| CADServis                                                                                                                                                       |
| TBM Software Ltd                                                                                                                                                |
| CADServis                                                                                                                                                       |
| Nitrosoft wetechsystem                                                                                                                                          |

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| ZWSOFT-Thailand                                                                                                                                                                             |
| ZW-France                                                                                                                                                                                   |
| Nanjing Changjiang Urban Architectural Design Co., Ltd.                                                                                                                                     |
| Xi'an Zhongxian Software Technology Co., Ltd.                                                                                                                                               |
| Elephant Architectural Design Co., Ltd. Nanjing Changjiang Urban Architectural Design Co., Ltd.                                                                                             |
| Nanjing Changjiang Urban Architectural Design Co., Ltd.                                                                                                                                     |
| Nitrosoft                                                                                                                                                                                   |
| Shanghai Paipin Software Co., Ltd.                                                                                                                                                          |
| ZWSOFT                                                                                                                                                                                      |
| Nitrosoft                                                                                                                                                                                   |
| ZWSOFT                                                                                                                                                                                      |
| ZWSOFT-Middle East                                                                                                                                                                          |
| TotalCAD Com. e Serv. em Informática Ltda.                                                                                                                                                  |
| ZWSOFT                                                                                                                                                                                      |
| Elephant Architectural Design Co., Ltd.                                                                                                                                                     |
| ZWSOFT                                                                                                                                                                                      |
| Koepfer (Changzhou) Transmission Technology Co., Ltd. Xiaodao New Energy Technology Co., Ltd. Jiangyin Haida Rubber & Plastic Co., Ltd.                                                     |
| ZWSOFT-Middle East                                                                                                                                                                          |
| Zhejiang University of Technology Engineering Design Group Co., Ltd. Nanjing Changjiang Urban Architectural Design Co., Ltd. Hangzhou Architectural Design and Research Institute Co., Ltd. |
| Zhejiang Industrial Design Research Institute Co., Ltd.                                                                                                                                     |
| ZWSOFT-Japan                                                                                                                                                                                |
| ZWSOFT                                                                                                                                                                                      |

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| Encee CAD/CAM Systeme GmbH 3DLotus SIA<br>ZWSOFT-Middle East                                                                   |
| ZWSOFT-Japan Co., Ltd.                                                                                                         |
| Zhongshan TCL Refrigeration Equipment Co., Ltd.                                                                                |
| Aedas Architectural Design Consultants (Beijing) Co.,<br>Ltd. Shenzhen Branch Guangzhou Light Machinery<br>Equipment Co., Ltd. |
| Changsha Research Institute of Mining and<br>Metallurgy Co., Ltd.                                                              |
| ZWSOFT-Japan                                                                                                                   |
| China Railway Shanhaiguan Bridge (Nantong) Co.,<br>Ltd.                                                                        |
| State Grid                                                                                                                     |
| Shenzhen Kesai Signage Intelligent Technology Co.,<br>Ltd. Heshan Xueerda Refrigeration Equipment Co.,<br>Ltd.                 |
| China National Energy Investment Group Co., Ltd.<br>Zhongshan Integrated Energy Services Co., Ltd.                             |
| Lichi Software (Suzhou) Co., Ltd.                                                                                              |
| Shanghai Lijin Aluminum Engineering Co., Ltd.                                                                                  |
| Jinting Automotive Wiring Harness (Suzhou) Co., Ltd.                                                                           |
| Usługi Informatyczne 'Szansa'                                                                                                  |
| Jiangsu Architectural Design and Research Institute<br>Co., Ltd.                                                               |
| Nitrosoft                                                                                                                      |
| Nanjing Changjiang Urban Architectural Design Co.,<br>Ltd.                                                                     |
| Dongguan Yizhao Electronic Technology Co., Ltd.                                                                                |
| Midea Group Co., Ltd.                                                                                                          |
| ZWSOFT-Japan                                                                                                                   |
| Zhongwang Machinery                                                                                                            |
| China Resources Gas (Zhengzhou) Municipal Design<br>and Research Institute Co., Ltd.                                           |
| Fujian Fuqing Nuclear Power Co., Ltd.                                                                                          |
| ZW-France Elephant Architectural Design Co., Ltd.                                                                              |

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| Zijin (Xiamen) Engineering Design Co., Ltd.                                                                                          |
| Shanghai Huayi Engineering Co., Ltd.                                                                                                 |
| ZWSOFT                                                                                                                               |
| ZWSOFT-Vietnam                                                                                                                       |
| ZWSOFT-Japan                                                                                                                         |
| Nitrosoft Tyco Electronics                                                                                                           |
| ZW-France                                                                                                                            |
| Shanghai Sansi Electronic Engineering Co., Ltd.                                                                                      |
| CCCC Second Highway Survey and Design Institute Co., Ltd.                                                                            |
| Nitrosoft                                                                                                                            |
| 3DLotus SIA                                                                                                                          |
| Luban Software Co., Ltd.                                                                                                             |
| ZWSOFT                                                                                                                               |
| Arch Lab sro                                                                                                                         |
| TE Connectivity Corporation Zhejiang Dongda Environmental Engineering Co., Ltd.                                                      |
| ZWSOFT                                                                                                                               |
| Elephant Architectural Design Co., Ltd.                                                                                              |
| ZW-France                                                                                                                            |
| Zhongwang Building                                                                                                                   |
| Saprosoft                                                                                                                            |
| MS Solution                                                                                                                          |
| Ibercad, Ida.                                                                                                                        |
| Guangzhou Tianqi Zhengye Architectural Design Office ZWSOFT ZWSOFT-Malaysia Shenzhen Guangming Construction Design Co., Ltd. Nanjing |
| Wanxiang Qianchao Co., Ltd.                                                                                                          |
| Nitrosoft                                                                                                                            |

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| Hangzhou Garden Design Institute Co., Ltd. Suzhou Zhuyuan Landscape Planning and Design Co., Ltd.                                               |
| Armaplus ZW-France                                                                                                                              |
| Nidec (Kobao) Co., Ltd. Hangzhou Landscape Design Institute Co., Ltd.                                                                           |
| Ilancad                                                                                                                                         |
| Dober Encee CAD/CAM Systeme GmbH Nitrosoft Usługi Informatyczne 'Szansa'                                                                        |
| Encee CAD/CAM Systeme GmbH                                                                                                                      |
| State Grid Zhejiang Electric Power Co., Ltd. Ningbo Minshi Automotive Parts Technology R&D Co., Ltd.                                            |
| State Grid Fujian Electric Power Co., Ltd. Ningbo Minshi Automotive Parts Technology R&D Co., Ltd.                                              |
| CAD FOCUS SDN BHD                                                                                                                               |
| Encee CAD/CAM Systeme GmbH Usługi Informatyczne 'Szansa' ZW-France Taiwan ZW                                                                    |
| MP Scia INGENIERIA SL                                                                                                                           |
| State Grid Fujian Electric Power Co., Ltd.                                                                                                      |
| A2P Software                                                                                                                                    |
| HOPE Technologies Pvt Ltd                                                                                                                       |
| Shenyang Tianyuan Technology Co., Ltd.                                                                                                          |
| Birocom2000 Global Force Direct PT.Piranti Nusantara Teknologi HOPE Technologies Pvt Ltd                                                        |
| Softtech Solutions Vietnam CAD/CAM Technology Co., Ltd Zhongshan TCL Refrigeration Equipment Co., Ltd Zhuhai Juneng Precision Industry Co., Ltd |
| TotalCAD Com. e Serv. em Informática Ltda.                                                                                                      |
| China Merchants Heavy Industries (Jiangsu) Co., Ltd.                                                                                            |
| tiscali Zhejiang Lida Electric Co., Ltd.                                                                                                        |

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| Shenyang Zhongzhijie Fluid Control System Co., Ltd.<br>Yantai Urban and Rural Construction School Baoding<br>Weier Foundry Machinery Co., Ltd. Guangzhou<br>Guangzhong Enterprise Group Co., Ltd. Dalian<br>Shenlan Pump Industry Co., Ltd. Beijing Mingri<br>Electrical Equipment Co., Ltd. |
| Shanghai Linbo Architectural Planning and Design<br>Co., Ltd.                                                                                                                                                                                                                                |























































































































