

IntelliCAD® 14.0 by IntelliCAD Technology Consortium

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Thank you for using IntelliCAD. This README file includes details about IntelliCAD 14.0, which contains many new features and fixes, and continued compatibility with ODA SDKs version 2025.12.

IntelliCAD 14.0 was released on 7/31/2025.

New Features in 14.0

Performance

- Entity snapping is refactored for improved stability and performance.
- The Copy to Clipboard command is 30x faster in certain scenarios.
- The Break command is 12x faster.
- Overall performance improvements when using the Move, View, and Union commands.
- Improved performance for GetCurrentView and SetCurrentView in the .NET API.
- Improved performance when using grips to stretch a large number of overlapping lines.

Working with files

- Import .svg files.
- Specify more options when importing .dgn files, such as the view number, entity conversion, entity associativity, lineweights, and more.
- If saving a drawing to an inaccessible path, for example, with a lost network connection, a copy of the drawing is saved automatically in the user's \Documents\My Program\Emergency Saved Drawings folder.
- For IntelliCAD versions that support working with BIM files:
 - Support for Autodesk® Revit® 2025 RVT and RFA file formats.
 - Change the orientation of a wall as you draw it using the Flip option.
 - Use grips when editing boundaries of spaces.
- For IntelliCAD versions that support editing and creating .dgn files in their native format:
 - Use the new Print dialog to select from more print options, print to files, preview before printing, specify print styles, and more.
 - Use the command line version of the Units command by typing -UNITS.
 - Use the Copy Entity Formatting command with more entities: text, multiline text, and dimensions.

Creating entities

- Use the Sculpt command to create a three-dimensional solid by trimming and combining a set of surfaces and solids.

Text

- Create a QR code from new multiline text or multiline text attached to a new leader line.
- Use new Unicode fonts.

- Turn automatic stacking of multiline text on or off.

Blocks

- Improved workflow when using the Attribute Editor dialog box to edit the value, text settings, and properties of each attribute in a block.
- For advanced blocks, use the CPolygon option when adding a stretch or polar stretch action.

Extracting data

- When filtering entities to include in reports, you can choose to include only those entities that are in use in drawings.

User interface

- Choose between new themes that include: Dark, Light, and Gray. Dark is the default.
- Drag drawing windows outside the program window, allowing you to work with drawings on multiple monitors without running the program again.
- Add text titles to visually organize tools into groups on the Tool Palettes pane.
- Choose transparency settings for the command bar when it is undocked.
- Set options for the status bar from one location by choosing Options > User Preferences, and then click Status Bar Settings.
- Choose how various UI elements work with running entity snaps by choosing Drawing Settings > Coordinate Input > Entity Snaps.

More features

- The Overkill command now works with rays, infinite lines, text, multiline text, and hatches.
- Use the Trim command with table entities.
- Automatically fill table cells with content from existing cells.
- Specify a file name before publishing to a .pdf file instead of prompting for a file name.
- Set the current scale for annotative entities when using the Scale List command.
- Default proxy options can be overridden when opening a drawing that contains custom objects created in an unavailable custom application.

APIs

- LISP: Access the LISP programming environment using Microsoft® Visual Studio Code with the IntelliCAD Lisp Debugger extension. You can also use the VLISP command directly in IntelliCAD.
- LISP functions: dumpallproperties, getpropertyvalue, ispropertyreadonly, and setpropertyvalue.
- .NET: Updated to .NET version 8; use IicadApplicationPreferences for retrieving .ctb file paths.
- VBA: VBA is turned off by default to improve overall performance. To use VBA, set the VBAENABLED system variable to 1.
- IcARX: AcadAppInfo, CADUiPaletteSet, and Properties Palettes API.

System variables

- New system variables: ANNOSCALEPANEMODE, BDEPENDENCYHIGHLIGHT, CMDROLLOVEROPACITY, ISAVECOUNT, MTEXTAUTOSTACK, PROXYNOTICE, QCDECIMALSEPARATOR, STATBARMENUMODE, and TEMPOVERRIDES.

- UITHEME is renamed to COLORTHEME and includes new values.
- Updated system variables: GRIDLINESMAX, GRIDPOINTSMAX, LIMMIN, LIMMAX, OSNAPMAX, and STARTUP.
- VBAENABLED is now unhidden.

Important Fixes in 14.0

The following list details some of the many fixes that were implemented since the 13.1 release on 12/24/2024.

Working with files

- Fixed issue with the Quick Save command and saving OLE and image frames.
- Fixed issue with displaying dimension text in files converted using File Converter.
- For IntelliCAD versions that work with BIM files:
 - Fixed several issues when working with walls and corner windows.
 - Fixed several wall styles for metric drawings.
 - Fixed several issue for roofs.
- For IntelliCAD versions that work with .dgn files in their native format:
 - Fixes for the Boundary, Copy Entity Formatting, Fillet, and Mirror commands.
 - Several fixes when using the Explorer.
 - Several fixes when printing.
 - Several fixes for working with text.

Selecting and modifying entities

- Several fixes for entity snaps, including Perpendicular, Midpoint, and Tangent snaps. Additional fixes for entity snap tracking.
- Several fixes for entity tracking.
- Several fixes when editing with grips.
- Several fixes for using the Slice command.
- Several fixes for working with fields.
- Fixes issues when the Overkill command worked incorrectly with text and polylines.
- Fixes for the Copy, Explode, Extend, Fillet, Loft, Stretch, and Trim commands.

Text

- Fixed movement of multiline text in specific cases after editing and when creating in a rotated UCS.
- Fixed symbol display.

Blocks

- Several fixes for advanced blocks, including block tables, copy, alignment, grips, and selection.
- Fixed issue with block previews.

Extracting data

- Fixed issue when including all entities in a report.

- Fixed issues when working with categories.
- Fixed issues when reporting on blocks.

Printing and publishing

- Fixed issue with placement of external references during printing.
- Fixed issue with custom paper sizes.
- Several fixes when printing to a .pdf file, including a print stamp issue and print resolution.
- Several fixes when using the Publish command.
- Fixed the drawing file types that are available when using the Page Setup Import command.

User interface

- When using the Customize command, you can now move toolbar buttons directly in the program as in previous IntelliCAD versions.
- When hovering the mouse over a file tab that is not the active tab, the tab's Close button is fixed.
- Fixed issue when using externally referenced palette files.

APIs

- LISP: Fixes for entget, entnext, getenv, and ssget filters.
- .NET: Fixes for Application.GetSystemVariable, DocumentLockModeChangedEventArgs.
- SDS: Fixes for sds_invoke(), acedCmdS (sds_cmd), sds_getargs(), and sds_ssgetfirst.
- VBA: Fixes for ObjectModified and ObjectErased.
- IcARX: Fixes for acTransactionManagerPtr(), CAdUiAnchorBarm, CAdUiAnchorBar, CAdUiDockControlBar, and OpenDCL.

More fixes

- Fixed issue with updating OLE objects.
- Fixed issue when after executing FLATSHOT, blocks were incorrect.
- The image adjust icon is fixed in the Properties pane when working with images.
- Several fixes for working with tables.
- Several fixes for the Find command.
- Several fixes for working with shapes.
- Fixed display issue for blocks, rays, and infinite lines when using Zoom All and Zoom Extents commands.

Technical Details for 14.0

- ODA SDKs are updated to version 2025.12.
- Spatial ACIS libraries are updated to version 2025 1.0.1hf.
- The WiX Toolset is updated to version 6.0.

- IcARX development continues with additional functions compatible with AutoCAD® ObjectARX API, allowing members to create a single code base to support both IntelliCAD and Autodesk AutoCAD® application development.
- IntelliCAD source code and add-on applications are built with Microsoft Visual Studio® 2022, Windows SDK v10.0.22621.5040, and Platform Toolset v143.