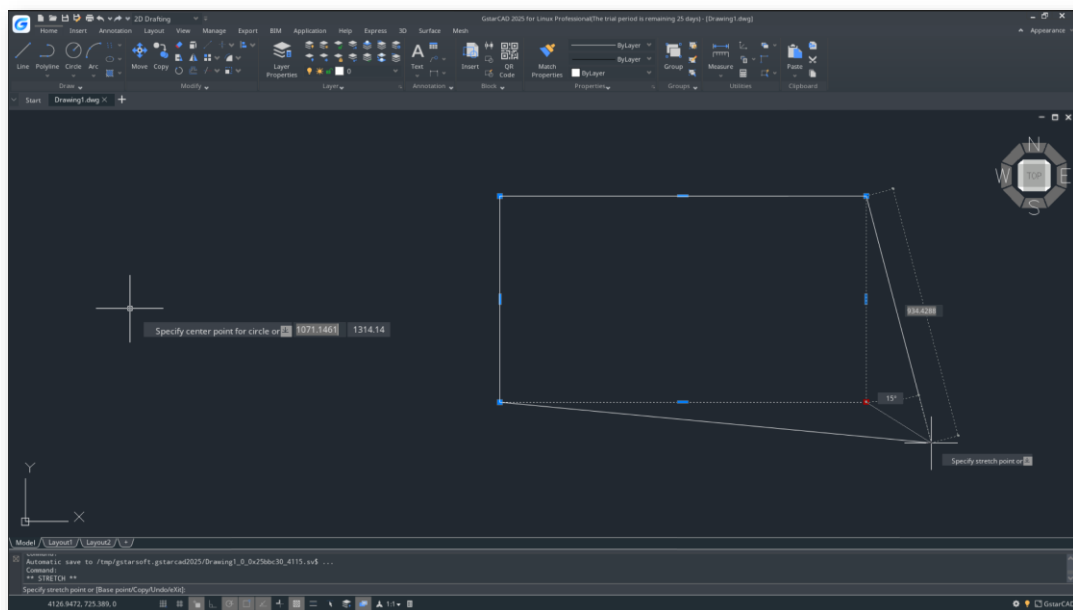# Overview

GstarCAD 2025 for Linux

GstarCAD 2025 for Linux Overview

Elevating Performance, Empowering Design

GstarCAD 2025 for Linux brings new features like Dynamic Input, BIM support, Sheet Set management, Geographic Location integration, Drawing Encryption, and Digital Signature. It includes a complete plotting system upgrade, improved performance for file operations, and enhanced secondary development capabilities with DCL, OpenDCL, and MFC. The new "Start" page, optimized 4K display support, and refined licensing make for a smoother user experience. With over 880 commands, covering 95% of the Windows version, GstarCAD 2025 for Linux offers a seamless transition and a consistent design experience. Let's take a look!
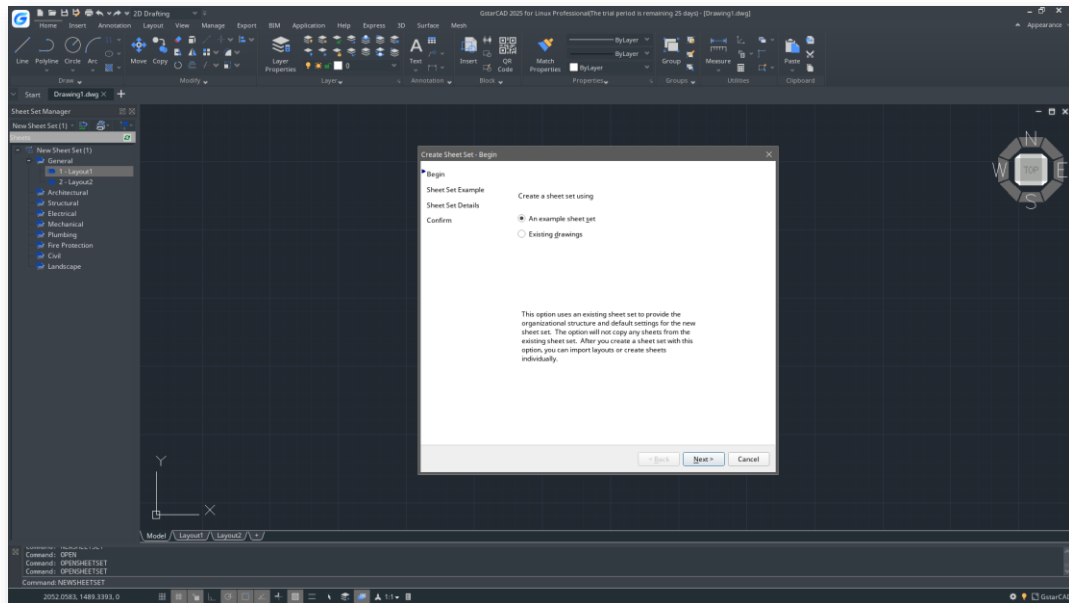
New Dynamic Input

Dynamic Input displays prompts directly at the cursor, with Pointer Input and Dimension Input, you can view and edit parameters like coordinates, lengths, angles, and radius in real-time while working in the drawing area. This makes command input and editing more intuitive and efficient.
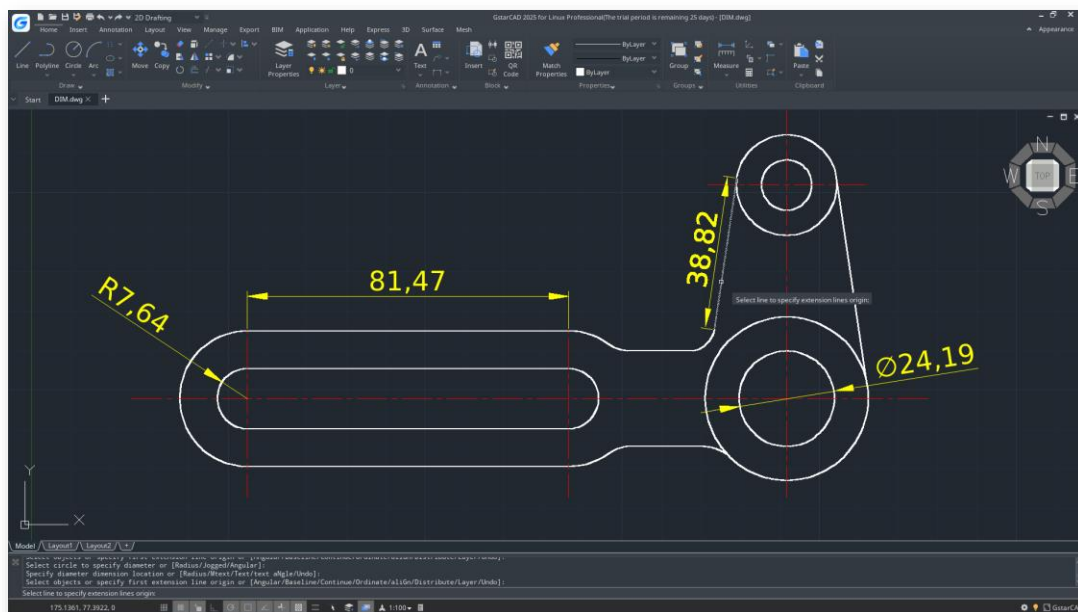

New Sheet Set

Create and manage collections of drawing layouts with the new Sheet Set feature. You can use sheet sets to organize, share, publish, and archive project files as a single unit, improving collaboration and efficiency.
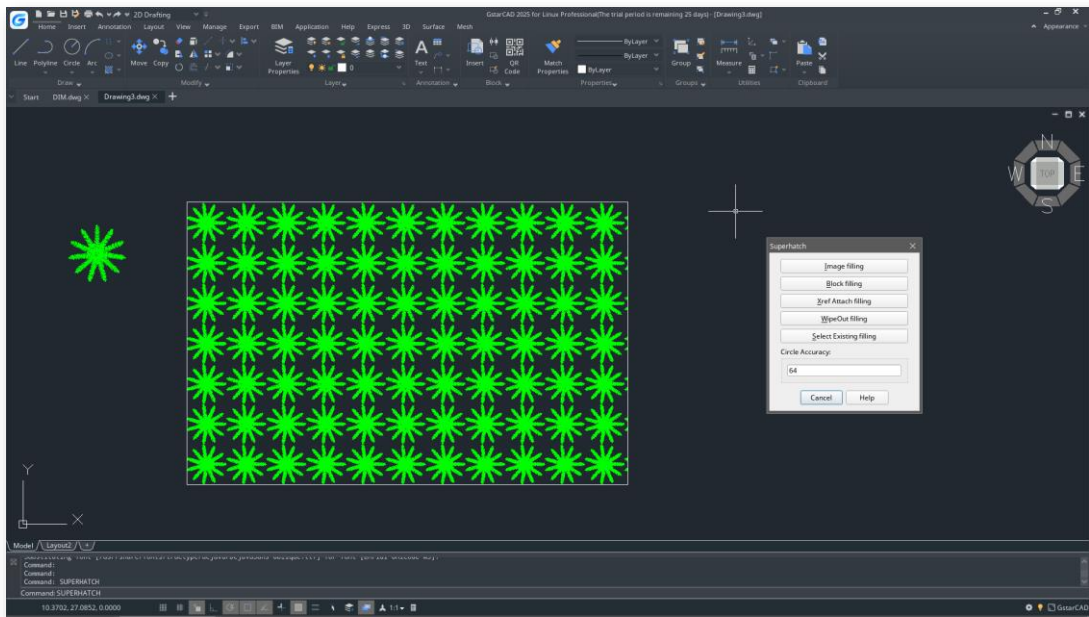
New DIM

To create various types of dimensions, you no longer need to switch between different commands. Simply execute the DIM command, hover your mouse cursor over objects to see a dimension preview, click to confirm, and place the dimension. This streamlines the annotation process and enhances efficiency.
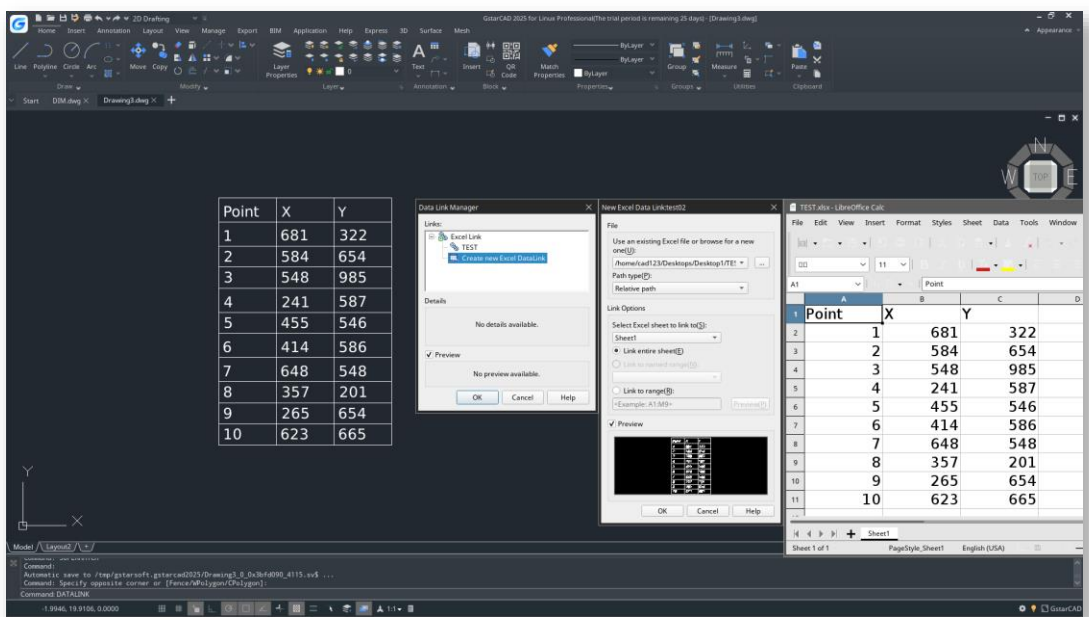

Improvement SUPERHATCH

Fill areas with patterns using images, blocks, external references, or wipeout with the new SUPERHATCH

command. Customize the fill by selecting the source, adjusting the insertion point, scale, and rotation, providing flexibility for various design needs.
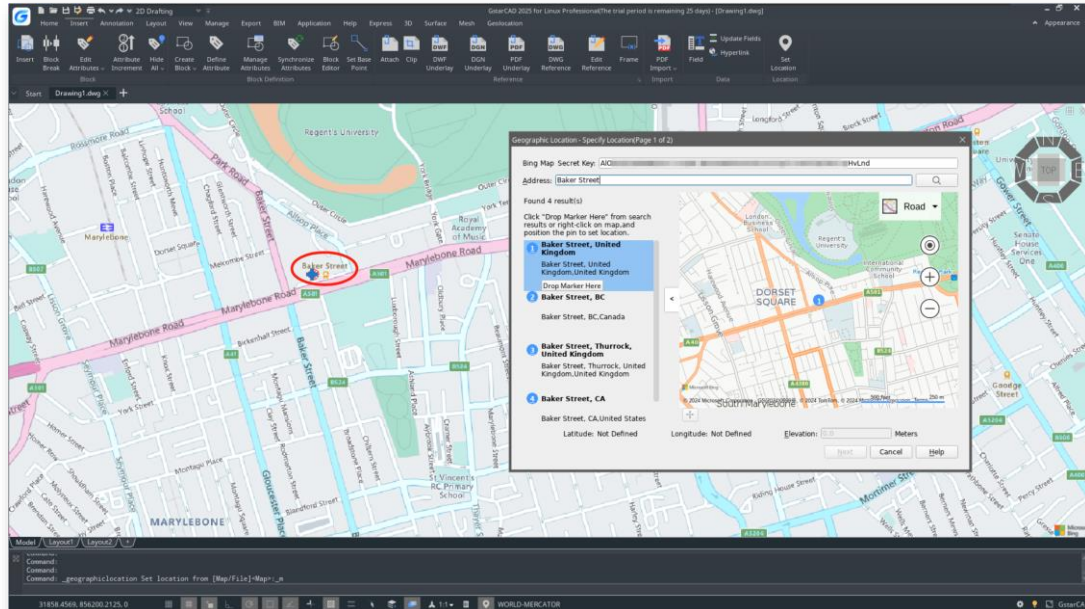

New DATALINK

Easily link tables in drawings to Excel files with the new DATALINK feature. Create, edit, and manage these data links using the "Data Link Manager." The DATALINKUPDATE command keeps your drawing and spreadsheet data synchronized, ensuring changes are reflected in both places.
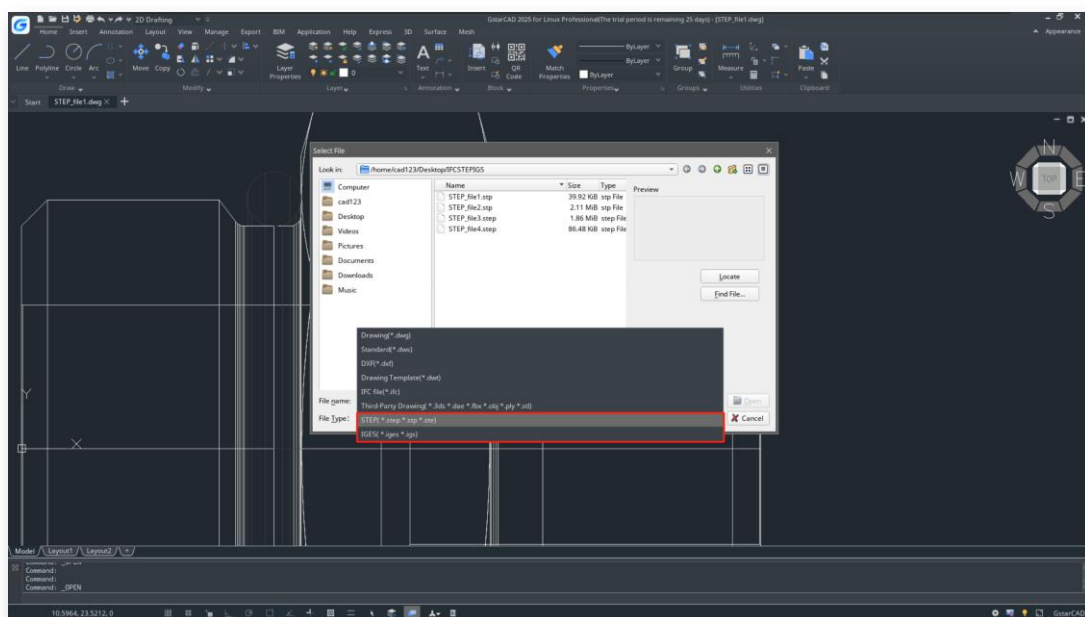
New Geographic Location

Insert and manage real-world geographic information in your drawings with new Geographic Location features. Set locations from online maps or GIS files, edit or reorient markers, and control coordinate display for precise alignment.
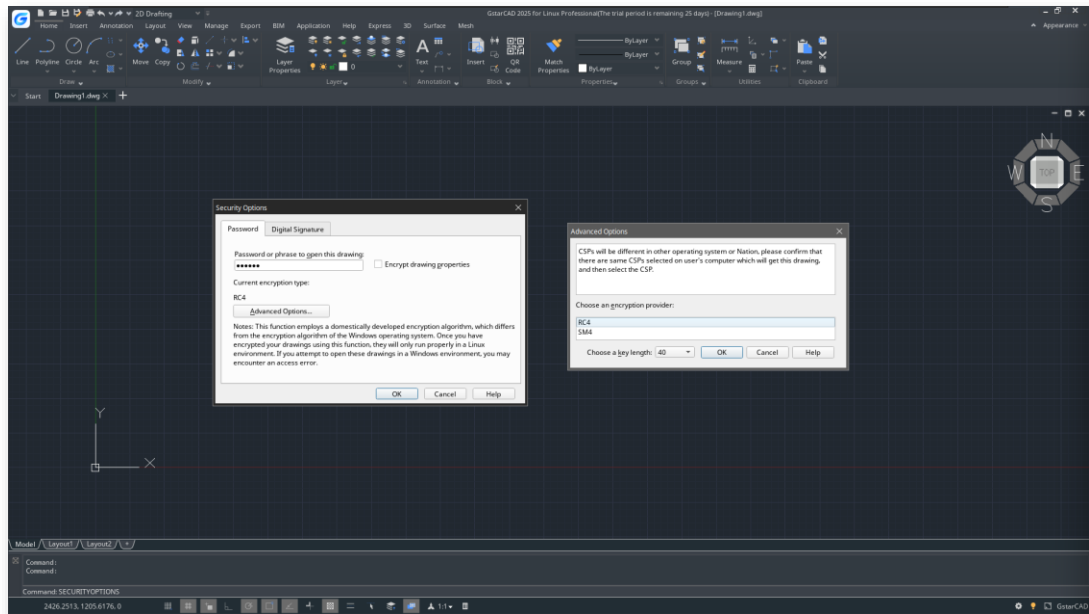

New STEP/IGES Files Import

GstarCAD 2025 for Linux brings enhanced functionality to the mechanical and architecture industries by supporting STEP and IGES files, which enables the convenient exchange of 3D CAD data between different software platforms.
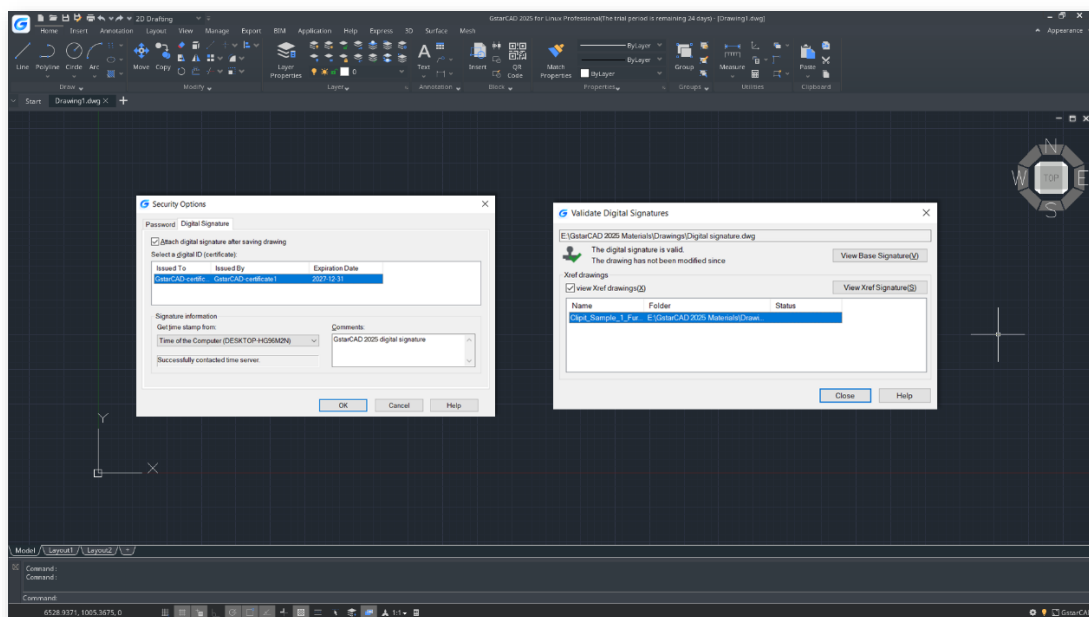
New Security Options

- **Drawing Encryption**

GstarCAD 2025 for Linux enhances security with drawing encryption and decryption functions, which allows you to set passwords and choose encryption algorithms for your drawings, ensuring data protection upon saving.
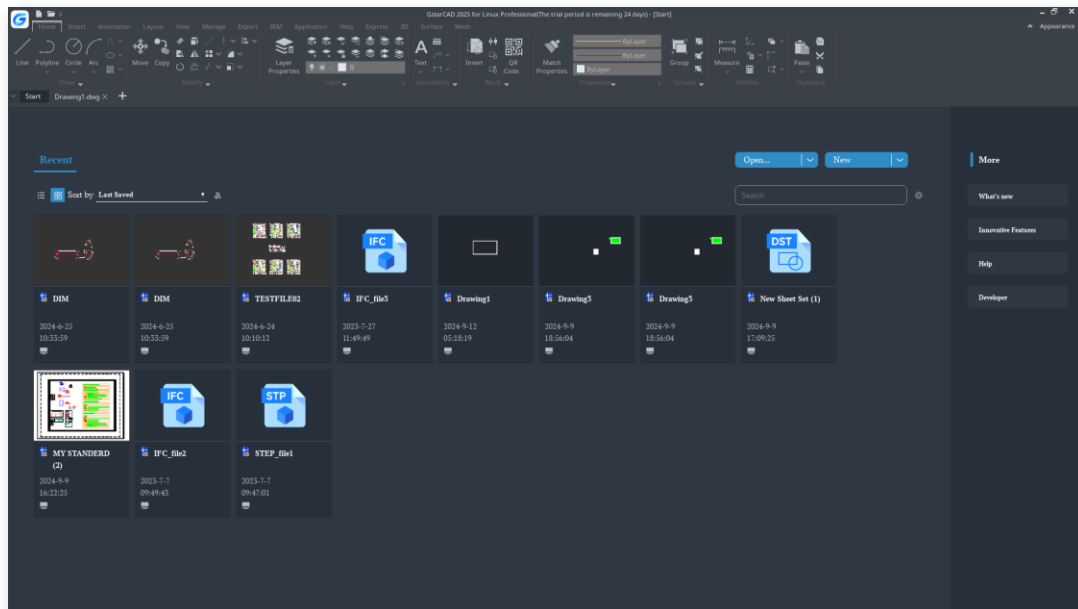

- **Digital Signature**

GstarCAD 2025 for Linux introduces the DIGITALSIGN command to attach digital signatures to drawings, ensuring their authenticity when a valid digital certificate is present. The SIGVALIDATE command allows you to verify these digital signatures, confirming the drawing's validity.

New Start Page

GstarCAD 2025 for Linux introduces a new Start Page for quick access to recent drawings, new feature guides, help resources, and development tools.

New Other Features

- **2D Boolean Operations (GC_BOOLOP):**

Perform union, intersection, and difference calculations on closed areas formed by polylines. The resulting objects remain as polylines.

- **Layout Merge (LAYOUTMERGE):**

Merge the contents of two or more layouts from one drawing into a specified layout.

- **WMF Import (WMFIN)**

Import Windows Metafile (WMF) graphics.

- **System Variable Monitor (SYSVARMONITOR)**

Monitor system variables from a list and send notifications to alert users when the system variables change or when their reported preferred values are altered.
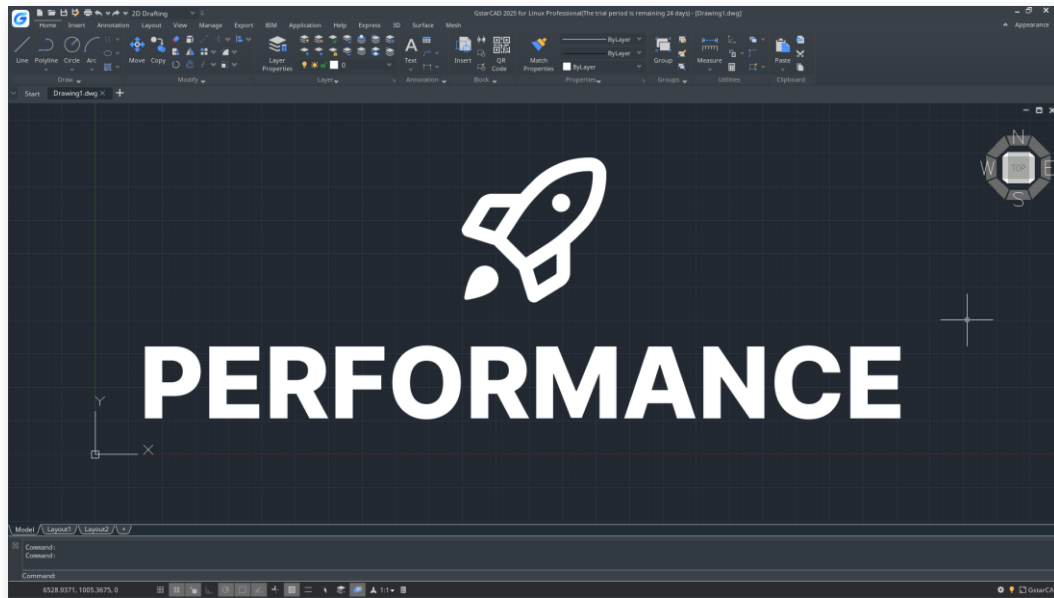
- **Light Sources**

Includes LIGHT, POINTLIGHT, TARGETPOINT, WEBLIGHT, FREEWEB, SPOTLIGHT, and FREESPOT to render scenes using various types of light sources.

- **New Visual Styles (VISUALSTYLES, VSCURRENT)**

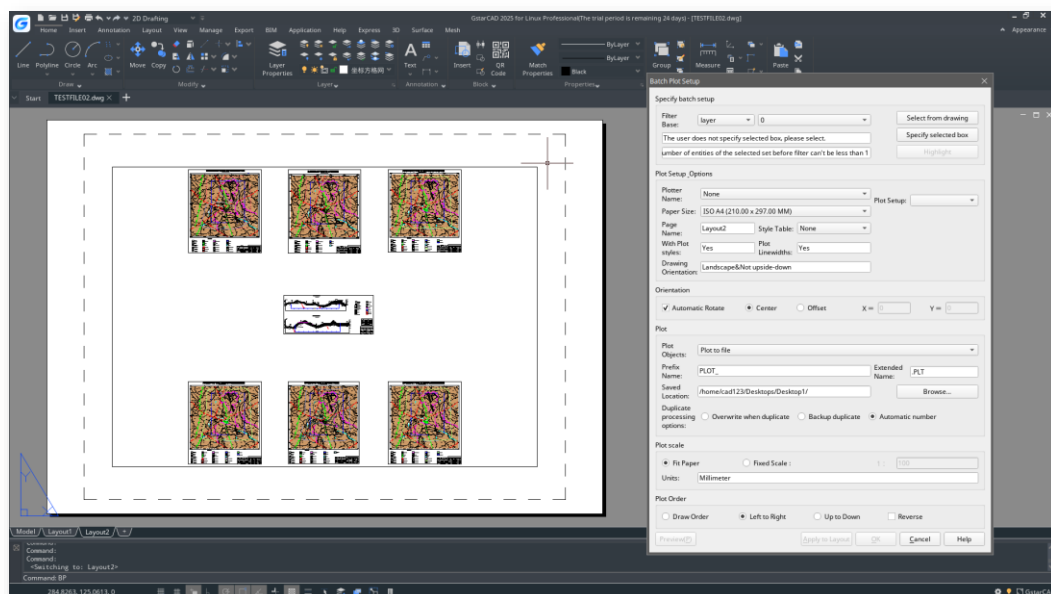Used to create and modify visual styles.

Improvement Performance

The software performance is boosted with a 30% faster average drawing opening speed, and an incremental saving mechanism that doubles the saving speed compared to the previous version. MOVE command is also optimized for drawings with many 2D polylines, achieving twice the efficiency of the previous version.
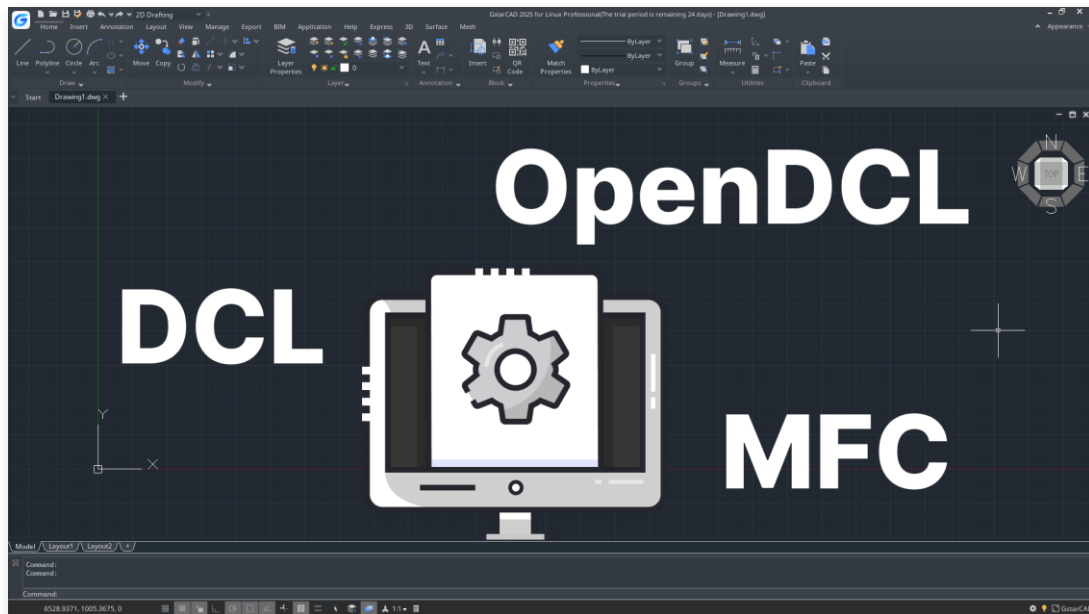

Improvement Plotting System

The upgraded plotting system in GstarCAD 2025 for Linux enhances plottng features, including OFD output, batch plot, publish, and advanced configuration options for plotters. It also improves plot quality with clearer text boundaries and smoother lines. The new plotting interfaces support custom development, and the system's overall usability and flexibility are significantly enhanced, offering a more efficient and precise plotting experience.
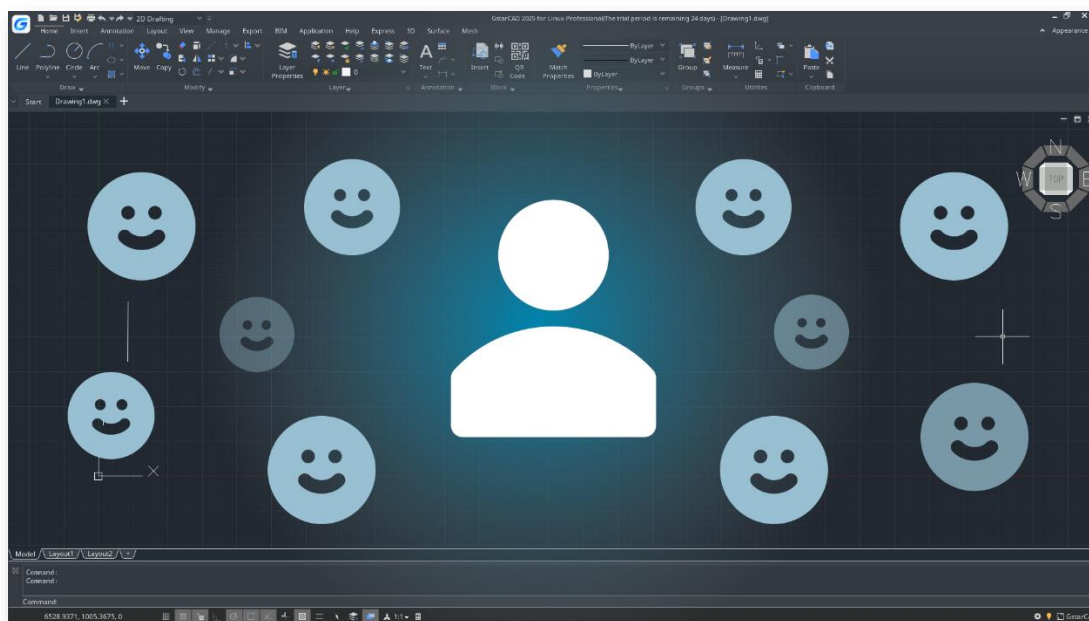
Improvement Secondary Development Interfaces

GstarCAD 2025 for Linux now supports DCL and OpenDCL for developing visual dialog interfaces, and introduces enhancements to the MFC interface, improving cross-platform migration.
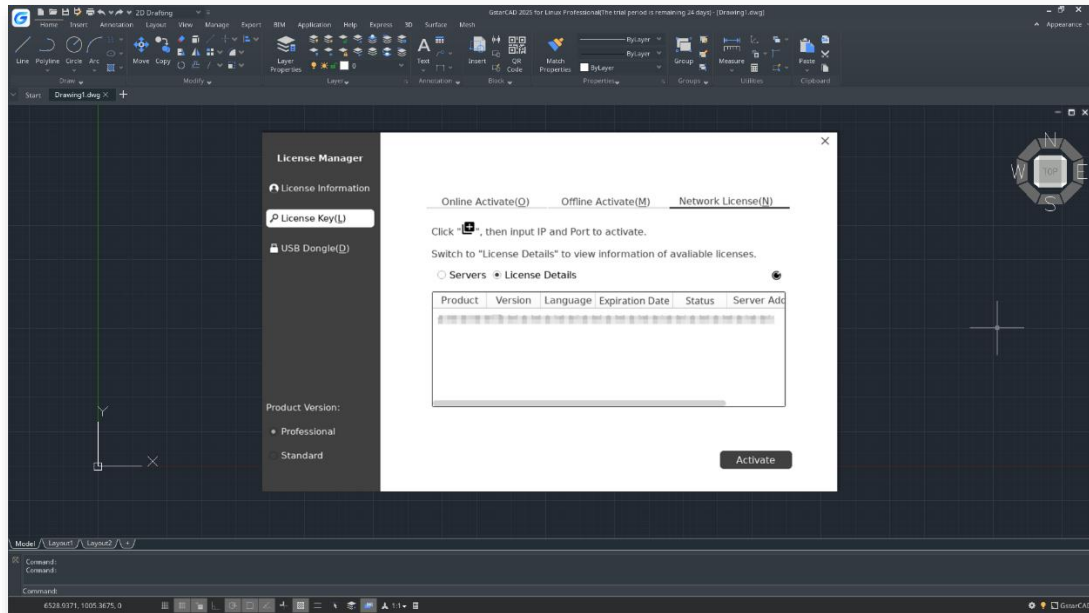

Improvement User Experience

GstarCAD 2025 for Linux introduces user-friendly enhancements such as left-click selection for command options, middle mouse button support for switching between drawings and zooming in the command line, and adaptation for 4K displays, providing a more efficient and visually clear experience.

Improvement Licensing

GstarCAD 2025 for Linux offers two versions: Professional and Standard. The Professional version supports all Linux commands, while the Standard version restricts dynamic blocks and 3D-related commands. Note that the command support varies based on the architecture (e.g., AMD, ARM). The new licensing interface provides clear activation details and allows users to check server status for network licenses.

GstarCAD 2025 for Linux

■ https://www.gstarcad.net/