Release Notes
Tecplot RS 2025 Release 1

Tecplot, Inc.

Welcome to Tecplot RS 2025 R1

What is new in Tecplot RS 2025 R1

- **Bookmark Gallery (Revamped Plot Gallery)**

  The Plot Gallery has been significantly redesigned and renamed the Bookmark Gallery. The feature has been modernized with a thumbnail-based interface, allowing users to visually preview each saved view. For plot galleries created prior to the 2025 R1 release, a new *Rebuild Thumbnails* option allows users to refresh the view with updated previews. The overall workflow has been refined to make saving, reviewing, and managing stored views easier and more intuitive. Each bookmark now includes timestep and source dataset metadata, providing improved context for stored views. A significant improvement is the inclusion of Swap Files directly within the Bookmark Gallery. Previously, swap file settings were found elsewhere in Tecplot RS. Consolidating this workflow into a single location simplifies the process and keeps all related functionality together. These updates lay the foundation for additional enhancements to the Bookmark Gallery in future releases.

- **Modernized Filter Dialog**

  The Filter Dialog—which is a powerful but dated component of Tecplot RS—has been fully modernized. The Filter interface has been visually refreshed and reorganized to make creating and applying filters more straightforward. When sorting the entity list by a variable, the operation is now clearer, and the sorted variable's metadata is now displayed directly in the table. The entity type is now displayed in a new column, improving clarity when inspecting mixed lists of wells, groups, and other entities. A key improvement is the integration of group/pattern/branch creation directly into the Filter Dialog streamlining the workflow. Previously, users needed to navigate to separate locations within Tecplot RS to create these sets.

- **INTERSECT Fault Definitions**

  Tecplot RS now supports fault definitions generated by INTERSECT.

- **CMG MINC Grid Support**

  Support has been added for CMG MINC grids.

- **Lines and Contours Together**

  Under *Plot Options → Grid → Active Grid Styles*, users can now display grid lines and contour shading simultaneously.

- **Quick Plot Data Export**

  Histogram, Cross Plot, Time/History, Depth, and Well Path Quick Plots now support data export. Users may export by right-clicking in the plot or by selecting *Data → Export Quick Plot Data*.

Bug Fixes and Minor Enhancements

- Time/History – Well Probe Visibility – Resolved an issue where Well Probe indicators could disappear when switching into Time/History mode.
- Completion Node Issue – Fixed a bug affecting completion node handling.
- Independent Slice Frame Behavior – Corrected an issue in which independent arbitrary slice frames could appear outside of 3D mode.
- RFT Compare Crash – Corrected an issue where Tecplot RS will crash when comparing field auxiliary RFT data to simulation dual porosity RFT data.
- Additional fixes were made to improve stability, macro recording consistency, entity list management, and UI responsiveness across various dialogs.

What Was New in Tecplot RS 2024 R1

- **Interactive XY**

  In previous versions of Tecplot Tecplot RS, when a user was in the XY Variable or XY Entity Plot type and Multi-Frame mode, the frames were all ordered sequentially by default. In the 2024 R1 version, users now have an option to enter manual mode and interactively choose which entity/variable to display in each frame.

  After entering multi-frame mode, a new selection menu in the animation control area will activate, including a manual option. Once in this mode, users can interactively select a frame, and choose the desired entity/variable on the sidebar, or to simply do a right-click on the frame and select the entity/variable.

- **Independent Arbitrary Slice Frames**

  An arbitrary slice created in Tecplot RS' 3D mode can sometimes be difficult to visualize and understand, due to the relative placement of each arbitrary slice component. The new independent arbitrary slice frame feature improves this visualization by separating and "flattening" each component into its own frame. After creating an arbitrary slice, simply active the "independent slice frames" checkbox. The original arbitrary slice will remain in the active frame, while the non-active frames will display the arbitrary slice components. You can control which components are displayed by checking or unchecking each component on the sidebar.

- **RFT Geo Layers - CSV or TXT file import**

  One of the most useful features in Tecplot RS is the ability to label and color-code geo layers in RFT plots. Manually entering the definitions for the geo layers (tops, bottoms, colors), is quite cumbersome. These definitions can now be assembled in a CSV or TXT file, making the process much easier. The required format for the CSV or TXT files can be found in the user manual.

- **Column and Row Sequential Write Data Options**

In the Write XY dialog, there are now options to export data across columns or down rows. “Column Sequential” and “Row Sequential” radio buttons are located under Format.

- **Guided Tutorial Dashboard**

  In the latest releases of Tecplot Tecplot RS, several guided tutorials have been added. These are embedded, interactive teaching tools that walk users through useful workflows in Tecplot RS, step by step. A complete guided tutorial dashboard can now be accessed by clicking on the rightmost icon on the top toolbar, or by going to Help > Guided Tutorials. The dashboard includes previews of each tutorial and serves as a library for all available tutorials. Additional tutorials will be continuously added to this dashboard in future releases.

Bug Fixes and Minor Enhancements

- Reload for 2D/3D - reload has been available for XY data in Tecplot RS. It has now been extended to 2D/3D.
- Time Delta + KSUM/KAVG - Time delta now works with KSUM and KAG. The UI for that section has been revamped.
- Dual Porosity CORSNUM - CORSNUM now works with dual porosity models.
- The 2D/3D Variable Range can now be set to the standard deviation value from the histogram. The range can be set to 1 and 2 standard deviations.
- KAVG Contour Range - when switching into KAVG mode, the contour range did not update correctly. This has been fixed.
- Macro support to enable/disable histogram and cross plots.
- Bug Fix - X-axis automatically changed to TIME after exiting the Filter dialog. This has been fixed.

Usage Notes

Graphics Drivers

For best results, please make sure that you are using the latest graphics drivers compatible with your hardware and operating system. These can be obtained from your graphics adapter vendor's Web site. Old versions may have issues with Tecplot RS, especially with larger data sets.

- Nvidia: www.nvidia.com/Download/index.aspx
- AMD: www.amd.com/en/support
- Intel: www.intel.com/content/www/us/en/download-center/home.html

Usage Data Collection

To help us better understand how our customers use our products and improve them further, Tecplot RS includes an analytics feature that reports basic information about your operating system, product version, and license at each launch of Tecplot RS. This data is not collected if you do not have access to the Internet or if the Google Analytics service is blocked by a firewall. No other data about your use of the product is collected.

Windows Configuration

Tecplot RS uses OpenGL 3D graphics, and will utilize high-end 3D graphics cards. For best results, use a graphics card and operating system that supports OpenGL (almost all newer graphics cards do).

With certain system configurations, it is not uncommon to experience problems due to insufficient memory or issues with graphics drivers. If problems arise on your system, please attempt the following:

1. Temporarily set the Hardware Acceleration option to None. To do this, add the following line to your `tecplot.cfg` file:

   ```
   $!Interface OpenGLConfig{AllowHWAcceleration= No}
   ```

   If this fixes the problem, it is very likely your OpenGL driver was involved. We recommend you install the latest driver for your graphics card from the manufacturer's Web site. Setting Hardware Acceleration to None may substantially reduce drawing speed, so use this as the final solution only if nothing else works.

2. Try changing the Color Palette to 16-, 24-, or 32-bit color.
3. If operating on large data sets, you still may run into memory issues. If this is the case, try one of the alternative Graphics Cache settings: Cache Only Lightweight Graphics Objects, or Do Not Cache Graphics. Choose **Performance Options** from the **Options** menu. On the Rendering page of the

Performance dialog, choose the desired Graphics Cache setting and click `OK`.

You can also make these your default settings by editing your `tecplot.cfg` file with a combination of commands. For Cache Only Lightweight Graphics, use:

```
$!Interface
  UseDisplayLists = Yes
  CacheLightWeightDisplayListOnly = Yes
```

For Do Not Cache Graphics, use:

```
$!Interface UseDisplayLists = No
```

Linux Configuration

Qt Display Customization

The default display settings for Qt software on Linux platforms may cause Tecplot RS to display graphics at less than optimal speeds. You can customize your Qt display settings by using the `qtconfig` utility included in the standard Tecplot RS installation (in the `bin` folder).

Remote Display Issues

If you have a Network or Site license, you can run Tecplot RS on one computer and display it on a second computer (via an X server). However, if you are running the OpenGL version of Tecplot RS, the X server must have the GLX extensions. If you are working with a large grid file remotely, try using the `-mesa` option to minimize the number of OpenGL commands sent across the network.

When displayed remotely, Tecplot RS may exhibit substantially lower drawing speeds than when it is displayed locally, especially for text and geometries.

Mesa Versions

Mesa, an OpenGL-equivalent graphics library, performs 3D rendering in software. It is typically used when hardware acceleration is unavailable or when working with remote display of large data.

The Mesa version of Tecplot RS functions more slowly, especially for 3D plotting. If you must run the Mesa version and display remotely, you can speed up the rendering for XY Line and 2D plots by setting the environment variable below. (On some machines, this may improve the speed of 3D plotting.)

```
export MESA_BACK_BUFFER=Pixmap
```

Platform-Independent Issues

Sidebar docking

If you have trouble re-docking the toolbar or dockable sidebar, double-click the title bar at the top of the sidebar, where it says "Plot Controls."

Crash Reporting

Please help us make Tecplot RS better by sending a crash report to us in the event that the application terminates unexpectedly.

On Windows, Tecplot RS creates a crash dump file. You will receive a message indicating that a crash dump file has been created. Click `Yes` in this dialog to open the folder where the file is created. You can then e-mail the most recent `.dmp` file in this folder, along with a description of what you were trying to do, to support@tecplot.com.

On other platforms, no crash dump file is created. However, we urge you to send us a report anyway with as much detail as you can remember.

If you have a moment and a desire to be extra helpful, please re-open Tecplot RS and choose **Enable Diagnostic Logging** in the **Help** menu. Then redo the steps you took to cause the crash. Tecplot RS will record your actions as a macro file. If you are able to reproduce the crash, send the resulting `.mcr` file to us (along with the `.dmp` file if you use Windows). On non-Windows platforms, you can find the `.mcr` file in `/usr/tmp/tecplot_$USER/tpa_diagnostics`.

Crash dumps and diagnostic macros are stored in a temporary folder and will be eventually be deleted by the system. There is no need to delete them manually.

Additional Resources

In addition to these Release Notes, Tecplot RS includes the following manuals and HTML Help Library to help you explore all of Tecplot RS's features. Your installation includes these manuals in the `doc` folder within your installation folder.

- Installation Guide - This guide gives detailed instructions on how to install Tecplot RS on your machine.
- Tutorial - Get started with Tecplot RS quickly by working with real-world data in a series of easy lessons.
- User's Manual - This manual provides a complete description of working with Tecplot RS features.
- The Integrated Help Library - You can access indexed, searchable Tecplot RS information by choosing **Tecplot RS Help** from the **Help** menu.
- For additional resources or help using Tecplot RS, visit our Web site at www.tecplot.com.

My Tecplot

My Tecplot is Tecplot's one-stop portal that allows you to download software, manage your license keys, and more. Visit it at my.tecplot.com/.

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