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# S3GRAF 2024.1 Release Notes

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**S3GRAF**  
Version 2024.1  
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## 1. Introduction

S3GRAF v2024.1 is the latest version of the Reservoir Engineering Visualisation software from Sciencesoft Ltd. S3GRAF provides functionality to quickly and efficiently visualise and analyse reservoir simulation data from a range of simulators. Line plots of well production data (for example) and views of the simulation grid can be created. With the 3D module three-dimensional displays of simulation grid data can be generated. The HPG module permits extremely fast loading of grid geometry and vector data, especially for large datasets.

The new features to be found in the 2024 versions of S3GRAF are outlined as follows:

### **Workflow Manager**

The Workflow Manager has continued to be updated to improve the utility, the user interface and make setting the necessary options clearer and more intuitive.

### **Improved Support for Nexus/VIP PLT Files**

Support has been added for PLT output with data at timestep 0.

### **Eclipse and Nexus Multi-Reservoir Support**

Multi-Reservoir support has been improved to handle analysis features such as Volumetric Calculations, Standard Calculations, Layer Analysis, etc.

### **Layer Analysis Sampling**

Min/Max are set for the whole chosen timestep range when selecting multiple timesteps.

## 2. Bug Fixes

This is a list of the bug fixes applied to S3GRAF v2024.1.

- Files
  - The new meta-data from Nexus CNV files has been applied
  - Corrected the loading of very large Meteor/UTChem files that failed to load
  - Improved the memory performance of Meteor/UTChem models
  - Improved the error reporting for CMG SR3 data files
  - Removed any microsecond component from CMG timesteps as sub-second resolution is not supported
  - Multiple blank lines in RFT text files no longer prematurely terminate reading
- Analysis
  - Layer Analysis Sample plots now include the timestep in the legend by default
  - Workflow Manager can correctly identify Nexus plot files from VIP files
- Plots
  - Nexus plot data that includes history/observed data can have them automatically added to a plot
  - Index by Date working for RFT/PLT data
- Grids
  - Grid Thresholding interface caused the application to hang in certain circumstances
- General
  - Export As Eclipse correctly applies inactive cells based on the PORV values
  - Improved handling of GRF commands broken over multiple lines
  - Protected textboxes in Grid Details from unintended editing
  - Protected textboxes in Grid Statistics from unintended editing
  - Protected textboxes in User Function description from unintended editing

### 3. Workflow Changes

This is a list of the changes to the Workflows supplied with S3GRAF v2024.1.

Workflow Name	Changes
Connection Status check using STAT vector	Removed unnecessary legend min/max calculations
Hydrocarbon Maps	Added grid name handling for Multi-reservoir support Corrected issue with calculated vector names
Opportunity Index	Added grid name handling for Multi-reservoir support
Runtime Performance and Well Count	Corrected issue with calculated vector names
Volumetric Sweep	Corrected properties used for cell size for Nexus
GRID function include file	Now data is scaled across the whole timestep range
INDEX function include file	Added grid name parameter for Multi-reservoir support