

Release notes

PerGeos Software

Version 2020.3

3D data visualization and analysis

The aim of this document is to inform you about the most important new features, improvements and changes in this version of Thermo Scientific™ PerGeos Software.

Please read these Release Notes carefully.

We would appreciate your feedback regarding this version. If you encounter any problems or have any suggestions for improvement, please do not hesitate to contact us at FRBOR.3d_hotline@thermofisher.com.

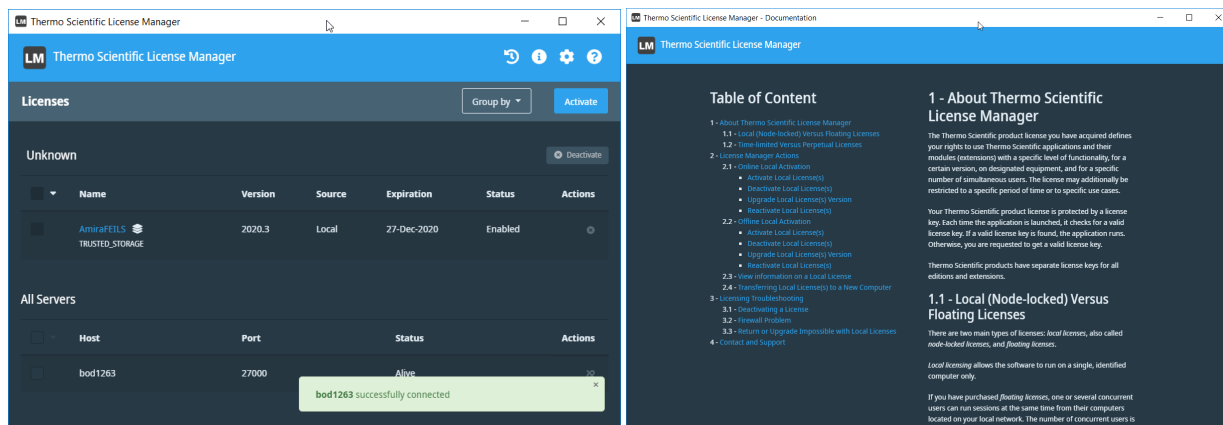
Table of Contents

Table of Contents	2
Enhancements and new features	3
Thermo Scientific License Manager	3
VGL file readers	3
Improvement Program.....	3
Xtra Recipe Library	3
Compatibility notes	4
End of support	4
Windows 8 support is discontinued.....	4
Operating systems.....	4
Solved issues 2020.3	4
Solved issues 2020.3.1	5

Enhancements and new features

Thermo Scientific License Manager

The Thermo Scientific License Manager is the new license activation tool that replaces the previous License Manager. This standalone application is installed during the PerGeos installation process. It allows you to activate all the Thermo Scientific products providing an unified and much user friendly experience, both for node locked or Flexnet™ server-based licenses. The tool is also designed to support you in the deactivation and license renewal process.



New activation codes, incompatible with PerGeos legacy ones, are needed to activate PerGeos software starting from version 2020.3. Precisions about the migration will be provided in the mail containing new activation codes.

VGL file readers

VGL proprietary file readers are now available in PerGeos software for all supported platforms.

Improvement Program

Thermo Fisher Scientific introduces a new initiative in order to help us improve the quality, reliability, and performance of PerGeos : the usage log.

If you choose to participate, PerGeos will collect anonymous information about your hardware configuration and how you use PerGeos in order to identify trends and usage patterns. No information regarding your proprietary data will be collected, and no personal data will be collected. .

The PerGeos 's product management at Thermo Fisher will then analyze the data collected to figure out how users are using PerGeos and design features based on how PerGeos customers actually work.

The information will be used by the product management team as a decision making tool to propose the most relevant improvements and new features within our software product.

Thermo Fisher Scientific is committed to protect your privacy. We will not collect your name, address, or any other personally identifiable information. This data collection is safe, secure, completely anonymous and fully GDPR-compliant

Xtra Recipe Library

The following Xtras have been published since the previous version. Please pay attention to the product, license and OS requirements, as well as the installation instructions. Have a look, and do not hesitate to send us your feedback.

- [Installation Instructions: AMIRA LOCAL Setup Tutorial](#)
- [PerGeos Process Based Modelling](#)
- [CylinderSlice with Native resolution in Z](#)
- [Optical Thin Section Pore Space Characterization in HSV colorspace](#)
- [Porosity and Permeability by blocks](#)
- [Imaging Codec for thumbnails in Windows Explorer](#)

Compatibility notes

- The way to declare TCL Script modules and Python Script modules into the resources file has been simplified; the former way is still supported but deprecated.

End of support

Windows 8 support is discontinued

As already announced, Windows 8 and Windows 8.1 operating system support is discontinued starting from this release.

Operating systems

PerGeos Software version 2020.3 runs on:

- Microsoft Windows 10 (64-bit).
- Linux x86 64 (64-bit). Supported 64-bit architecture is Intel64/AMD64 architecture. Supported Linux distribution is CentOS 7.

To add custom extensions with PerGeos XPand extension, you will need:

- Microsoft Visual Studio 2013 (VC12) Update 4 on Windows
- gcc 4.8.x on Linux CentOS 7

Solved issues 2020.3

2D-Histogram Segmentation	AA-11478	Readability has been improved when changing the display color.
Animation Director	AA-23756	The keyframe options now stay visible while in use.
	AA-23685	The keyframe options of a listed item are now editable when it is at the bottom of the window frame.
Dicom Reader	AA-23890	The Dicom reader is now able to read Dicom files with private implemented sequence tag (0009, 1010, 1210).
	AA-23377	The Dicom reader is now able to read Dicom files with private data element tag which is not a sequence.
Image Ortho Projections	AA-22255	In the Min/Max Slice ports, an inconsistency existed between the displayed unit and the value. This has been fixed, the Min/Max Slice values are now expressed in voxels.

Nifti reader	AA-23656	Nifti files containing time series can now be saved and reloaded without error.
	AA-11334	Nifti files containing time series can now be saved and reloaded without error.
Python Scripting	AA-22695	<code>__file__</code> variable is now correctly defined and can be used in a Python Listing file (.apl) or a Python Script-Object (.pyscro).
	AA-23478	A new paragraph has been added in the User's Guide "Automating, Customizing, Extending > Python Documentation > Python Environment and Package Manager > Potential issues with PYTHONPATH" to explain the potential issues due to the variable PYTHONPATH and how to solve those issues.
	AA-23176	When launching the application, a check on the PYTHONPATH environment variable is done and a warning message is now raised if it is set.
Surface	AA-23750	It is now possible to load a big surface dataset. However, there is a software limitation that does not allow such surfaces to be displayed. The limitation has been documented and a warning dialog will pop up if the surface cannot be displayed.
Tiff reader	AA-23355	The images containing "inf" values are now converted replacing inf values to NaN value. The colormap range of such datasets can now be displayed without error.
VGL reader	AA-22437	Dimensions of a raw data are now correctly read.
Viewer	AA-23684	Viewer visibility status is now inherited by default from viewer 0.

Solved issues 2020.3.1

DICOM reader	AA-24286	8 bits DICOM files can now correctly be converted to floating precision at load when Rescale is used.
Licensing	AA-24966	It is now possible to correctly start the application when having both an expired and a valid license for the product.
	AA-25084	Formation Factor Random Walker, Two Phase Flow Simulation, Pore Network Model Extraction method Pore-Based 2 phase Flow & methode Grain-Based 2 phase Flow, Nuclear Magnetic Resonance, Absolute Permeability Lattice Boltzmann modules (unlocked by PerGeosPoreNetworkFlowPackage, PerGeosPoreNetworkStatistics and PerGeosPetrophysics extensions) can now run correctly with a valid license.
Open Inventor Scene to Surface	AA-23984	Units are now correctly handled by this module.
Sieve Analysis	AA-24520	Extracts are now identical whatever input is a single 2D slice or a 3D with XY interpretation.
Slice	AA-23983	There was an origin calculation problem with NetCDF files. This is now correctly transcribed in the 3D space unit.
Tiff Reader	AA-24895	Now Tiff images with only one channel are correctly loaded.
2D-Histogram Segmentation	AA-11478	Readability has been improved when changing the display color.