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PRODUCT RELEASE SUMMARY
AVEVA™ Point Cloud Manager (Desktop) 5.11.0.0

Release Date: 8/11/2022

This document outlines all changes made in the above release of AVEVA™ Point Cloud Manager.

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Superseded software version: Point Cloud Manager 5.10.0.2

1. Point Cloud Manager Version Numbers

Point Cloud Manager version numbers take the format X.X.X.X.

- First version field denotes general software series number.

- Second version field is incremented to track major new feature implementation.

- Third version field is incremented to track minor new feature implementation.

- Final (fourth) version field is incremented to track error fixes.

2. Recommended CAD Machine Specification

The following machine specification is for a CAD machine, we offer machine specifications for other processes such as Dataset creation. Follow the link to find out more **here**.

COMPONENT	RECOMMENDATION
Processor	Intel Core i7 Processor. 8MB cache 4/8 Cores
Operating System	Windows 10 Pro x64
Memory	DDR3 1600 MHz 8GB RAM 1600 MHz
Graphics	NVidia Quadro K2200 with 4GB of GPU memory
Data Storage	500GB SSD (Operating System & local project storage – if required)
Network	1GB Ethernet Card

3. ALS Licensing

AVEVA™ Point Cloud Manager 5.8.0.0 onwards will require AVEVA™ ALS licensing technology. The legacy Sentinel licensing system can still be used for versions 5.7.0.1 and prior, but Sentinel based license creation & support will end 31st December 2022. Please contact your Account Manager or the Support Team for further information.

4. Important Announcements

Product support: AVEVA Point Cloud Manager solutions (formally LFM Software) have been supported through the email address lfm.support@aveva.com, which was the gateway to the 'RT' support case management system. Technical support for Point Cloud Manager software has now been integrated within the AVEVA Knowledge & Support Center, which is a common platform to create and monitor support cases; access installers*; and product knowledge & training material for all AVEVA products. To create new support cases and continue to receive prompt support please follow the guidance notes attached. Please note that the registration process can take over 24 hours, and we would recommend registration at the earliest opportunity, which can be done prior to case creation. Emails sent to the lfm.support@aveva.com address will continue to be monitored for a transitionary period until full customer adoption of the new tool is complete.

*Please note that the AVEVA Point Cloud Manager installers will temporarily remain outside the Knowledge & Support Center and accessed by: https://www.aveva.com/en/support-and-success/support-contact/aveva-product-support/#LFM-Support

Knowledge & Support Center access: https://softwaresupportsp.aveva.com/

NavVis laser data: AVEVA Point Cloud Manager can now import e57 data from the NavVis VLX scanner. Please note: For NavVis datasets, taking measurements whilst in Panoramic images is currently not supported but is available within the 3D point cloud.

5. Recommended Graphics Cards

AVEVA™ Point Cloud Manager is tested with a range of graphics cards. Below is a list of graphics cards that work successfully with AVEVA™ Point Cloud Manager.

GRAPHICS CARDS	GPU MEMORY
NVIDIA Quadro P5000	16GB GDDR5X
NVIDIA Quadro K6000	12GB GDDR5
NVIDIA Quadro M6000	12GB GDDR5
NVIDIA Quadro M5000	8GB GDDR5
NVIDIA Quadro P2000	5GB GDDR5
NVIDIA Quadro M2000	4GB GDDR5
NVIDIA Quadro P600	2GB 64-Bit GDDR5
NVIDIA Quadro K2000	2GB GDDR5
NVIDIA Quadro P6000	24GB GDDR5X
NVIDIA Quadro RTX6000	24GB GDDR6

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6. Enhancements for this Release

6.1. Download of selected datasets

Recent versions of Point Cloud Manager have the capability to download projects hosted on the AVEVA Point Cloud Manager Connect platform. This has been further enhanced in this release, and the user can now select specific datasets within the project for direct download. Simply use standard MS Windows selection to download single or multiple datasets within the project folder.

6.2. Generation of Colour and Intensity datasets

A new option is available in the generation wizard that will create a dataset with both colour and intensity information. This will give the users the capability to switch between the two modes once the dataset has been generated. On release, this does not include the ability to switch directly within a CAD link.

6.3. Load Classification Data from Connect Projects

Data that has been published from the desktop application to AVEVA Point Cloud Manager Viewer on Connect that contains classifications, will now have these respected and displayed when loading that project through 'open cloud.'

6.4. New Rotational Controls

New rotational controls are now available from the Options menu. The new Orbital control allows for rotation around multiple axis whilst holding down the left mouse button. This new method is more intuitive to use and in line with other 3D software experiences. Please see the Server help guide for more information.

6.5. Support for CAD systems

Additional support added for following CAD systems

CAD SYSTEM	RELEASE SUPPORTED
AutoDesk Navisworks	2023
AutoDesk AutoCAD	2023
AutoDesk REVIT	2023

Support for following has been removed

CAD SYSTEM	SUPPORT REMOVED
AutoDesk Naviswork	2017, 2018
AutoDesk AutoCAD	2017, 2018
AutoDesk REVIT	2017, 2018

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7. Bug Fixes

INTERNAL REFERENCE	DESCRIPTION
1909516	Dark Solid Point Cloud Data Solid Point Cloud data has been dark with in some instances with mono datasets. This was an issue with the intensity not being read correctly during the generation process. Fixed for 5.11 release.
1964760	Crashing when editing positional information of Measurement. Point Cloud Manager would crash when editing the positional information of in the attribute window.
1911825	Failure to load scans in Gateway mode after cancellation when being opened in a saved project. Point Cloud Manager would not have the option to load scans when a user would cancel opening a saved project. This is now fixed.
1971319	Crashing after importing .lfx floorplan Point Cloud Manager would crash when right clicking after importing an lfx floorplan. This has now been rectified.

8. Known Issues

INTERNAL REFERENCE	DESCRIPTION
1995070	Issues when loading two datasets with the same name Instances recorded when a project contained datasets with the same name. Points files and BubbleView may not display correctly. This has been fixed for future 5.12 release

9. Support Information

Please report any issues with this version to us by creating a support case through the GCS Knowledge & Support Center accessed here: https://softwaresupportsp.aveva.com/. When creating a ticket please include as much necessary information to assist the support team in answering your query as quickly as possible:

- Which AVEVA Point Cloud Manager solution does the issue relate to?
- What is the full version number of this package?
- What is the license number if applicable/known?
- If the problem relates to an AVEVA Point Cloud Manager link to an external package, what is the name and version number of the CAD package in question?
- Concise description of the issue
- Workflow steps to repeat the problem
- Download details of supporting data (scans/drawings/surveys etc.)

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10. Product QA cycle:

The development philosophy used to produce Point Cloud Manager applies AGILE principles to ensure a high-quality product which evolves to match customer requirements. Throughout the development cycle, test and evaluation is used to guide the process and minimise the final test overhead.

The final test process has three stages, and this document has been prepared after these have been completed. These stages are outlined below.

10.1. Individual Function Test

All Point Cloud Manager desktop functionality is examined for correct responses. Functions called from the Main Menu bar, Main Toolbar, Modelling Toolbars, and Component Browser are tested in turn. This ensures that the functionality matches the design intent, and previously recorded errors have been fixed.

10.2. Destructive Test

This section of the test schedule is aimed at investigating to see if a software product exhibits proper behaviour when subjected to improper usage, or improper input. The tests are applied to different data samples, machines, and in a random manner to try to replicate 'real world' variations in user conditions.

10.3. Software Acceptance Tests

AVEVA concludes the Point Cloud Manager test cycle with a series of controlled examples aimed at simulating real life use situations. The finished models are QA checked against calibrated historical data, to ensure that the product maintains the previous output standard.

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