PRODUCT RELEASE SUMMARY
AVEVA™ Point Cloud Manager (on-premise) 5.6.0.0

Release Date: 30/07/2021

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

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Superseded software version: LFM Server 5.5.1.0

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

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

For further information about Point Cloud Manager machine specifications please click **here**.

IMPORTANT ANNOUNCEMENT

Please be aware Point Cloud Manager will no longer be supporting the following CAD systems effective with the release of Point Cloud Manager 5.6.0.0. Dropping support for these systems which are no longer supported by their developers will allow us to better focus our attention on more widely used and supported 3rd party CAD packages.

CAD SYSTEM	RELEASE NOT SUPPORTED
AutoDesk AutoCAD	2014, 2015, 2016
Bentley MicroStation	V8, XM
Intergraph Smart® 3D	2014 R1
Intergraph Smart® Review	2015 R1

3. Recommended Graphics Cards

Point Cloud Manager is tested with a range of graphics cards. Below is a list of graphics cards that work successfully with 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 K600	1024MB DDR3
NVIDIA Quadro P600	2GB 64-Bit GDDR5
NVIDIA Quadro K2000	2GB GDDR5
NVIDIA Quadro P6000	24GB GDDR5X
NVIDIA Quadro RTX6000	24GB GDDR6

4. Enhancements for this Release

4.1. Increased support for CAD systems

AVEVA's focus is to develop and test for the latest and greatest 3rd party CAD packages, in this release we have updated the compatibility of our software with a range of the latest 3rd party applications. see table below.

CAD SYSTEM	RELEASE NOT SUPPORTED
AutoDesk AutoCAD	2021, 2022
Intergraph Smart® 3D	2019
Intergraph Smart® Review	2020

5. Known Issues

INTERNAL REFERENCE	DESCRIPTION
1351178	Points at long range cannot be seen in Microstation V8i, this issue is visible on data which is greater than 10km away from the origin.
1411004	AVEVA Point Cloud Manager crashes after creating multiple measurements once a deviation measurement has been created and imported within the same session. Workaround is to measure prior to importing or export the deviation measurement then import in a new session of Point Cloud Manager.
1299483	Not all points inside the volume are demolished with the demolish objects passed from Bentley Connect connect to AVEVA Point Cloud Manager, issue appears to be caused by some points not being selected during the demolish feature.
1411650	Markups are duplicated each time a project is published to Viewer on AVEVA Connect.

6. 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.

6.1. Individual Function Test

All Point Cloud Manager desktop functionality is examined for correct responses. Functions called from the Main Menubar, 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.

6.2. 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.

6.3. 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.