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Enhancements:

Revised value gradations implemented for two QC Module tests

The color gradations (and their associated values) for relative vertical accuracy have been modified in test DC8 of the ‘LiDAR Workflow QC – 1 LiDAR Data Checks’ and test CC2 of the ‘LiDAR Workflow QC – 2 LiDAR Calibration Checks’ tools. The increment has been reduced from 3 cm to 2 cm to better depict areas of possible concern as lidar sensors’ accuracy has improved.

Modifications to Class Descriptions made to reflect recent changes to the LAS v1.4 specification

To keep in compliance with the recent revision to the LAS Specification 1.4 – R14 (ASPRS; March 26, 2019), several class descriptions have been updated: Class 19 is now described as ‘Overhead Structure’, Class 20 is now ‘Ignored Ground’, Class 21 is now ‘Snow’, and Class 22 is now ‘Temporal Exclusion’. In addition, tools that use any of these newly-described classes have been modified accordingly – for example, ‘Breakline Properties’ and ‘Reassess Points for Ignored Ground Classification’ on the ‘Breaklines’ tab.

Search Radius option added to ‘Reference Reclass’ tool to improve performance

An option to set a Search Radius (in project units) has been added to the ‘Reference Reclass’ tool to improve performance when determining candidate points using the selected criteria.
Installation folder reconfiguration allows users without Admin rights to open MARS®

Because of stricter security protocols in Windows 10 compared to earlier versions, users with basic user accounts (i.e., those lacking any Administrator rights) may have had issues opening and/or using previous versions of MARS®. Beginning with this version, the ‘Log’ folder that is used for troubleshooting will be moved from the install path to the temporary folder (‘.mars’) path.

Previous default location:  C:\MARS\Log
New default location:  C:\Users\<user name>\.mars\Log

This ensures that MARS® will have write and modify access to the ‘Log’ folder for all users.

List of Bug Fixes:

- Bug fixed causing a program hang when exporting contours (shapefile) with specific ‘Line Cleanup’ settings.
- Bug fixed in ‘System Information’ tool causing the wrong Operating System names to be reported for Windows 10 and Windows Server 2016.
- Bug fixed causing ‘Edit Collection Scan Display’ interface to show old collection scan numbers after a ‘Collection Scan Renumbering’ operation has been performed on Riegl sensor data.
- Bug fixed in ‘Reference Reclass’ tool that was causing a failure when the input Classified files contained a very large number of points.