

# Leica Geosystems Release Notes

**Product:** Leica Cyclone 3DR 2020.0.6  
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**From:** HDS Software Product Management



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## What's New

This is a minor release including bug fixes for stability.

According to the maintenance expiration date policy, users under maintenance on April 1, 2020 may access version 2020.0.5 with no new license required.

## Improvements

- Improved the initial surface creation when using the **Reverse Eng > Overlapped Surface** command by utilizing the mesh normals.

## Bug Fixes

- Corrected a bug which could cause color loss on some PTS files upon import.
- Analysis > Compare Cloud vs Cloud: Fixed a performance issue that decreased computation time and management of RAM memory during the analysis.

## Leica Cyclone 3DR 2020.0.X Compatibility

- Cyclone 3DR is compatible with CLM 1.8 and higher.
- Cyclone 3DR is compatible with JetStream Enterprise 1.3 and higher.
- Cyclone 3DR is compatible with LGS files.
- Cyclone 3DR is compatible with Cyclone IMP databases from Cyclone 6.0 or higher, however improved rendering will only be seen with IMPs from Cyclone 9.3 or higher.

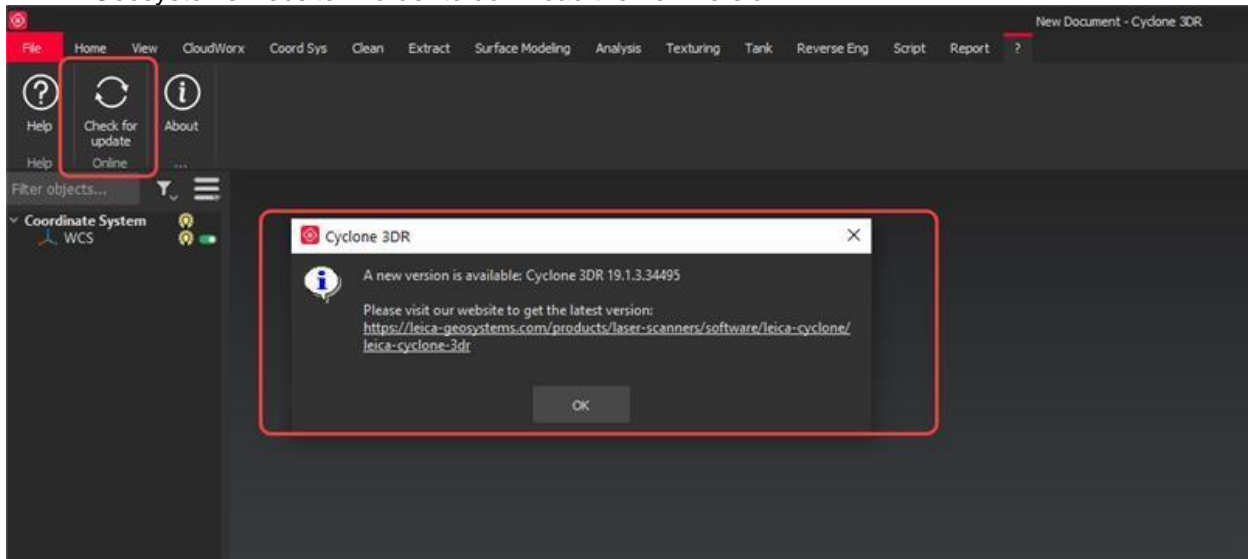
## Recommended Computer Specifications

- CPU: 2 GHz Dual Quad Core i7 or higher (i5 minimum)
- RAM: minimum 16 GB or more for 64-bit OS
- Graphic Card: NVidia Quadro or GeForce 1 GB (with OpenGL support, versions 4.3 or higher)
- Operating system: Microsoft Windows 7, 8, 10 (64 bits supported)
- Hard Disk: 3 GB free disk space

## Installation and Licensing Recommendations

### Update Procedure

1. Go to **File** and click **Check for Updated**. A dialog will appear which links you to the Leica Geosystems website in order to download the new version:



### Licensing

All users with valid CCP or CCP which was valid as of 1 April 2020 for Cyclone 3DR, can run this new version of Cyclone 3DR.

All users with valid CCP or CCP which was valid as of 1 April 2020 for 3DReshaper, can run this new version of Cyclone 3DR with no new license required.

Users with 3DReshaper licenses with expired CCP must migrate to Cyclone 3DR in order to continue to access updates and support. Please contact your sales or support personnel for more information.

### Known Issues

For the initial release of Cyclone 3DR, certain 3DReshaper features are not yet enabled. These features will be added to Cyclone 3DR in future releases. Cyclone 3DR will reach core feature parity with 3DReshaper. The following differences exist:

- The Documentation Center is only available in English.
- Some CAD import and export issues might happen. For example, when exporting a cloud in DXF, some entities might be missing. To avoid this, it is preferable to use the Send to AutoCAD option.
- If DXF can be imported with a standard version, DWG requires the AEC or PRO Edition. One workaround is to use the 3DSend command from AutoCAD to Cyclone 3DR.
- .RSH files are natively compatible with Cyclone 3DR, and the last version of 3DReshaper is compatible with .3DR files (with a limit on textures and CAD objects).

## Leica Cyclone 3DR supported file formats

Please reference the Cyclone 3DR Technical Specification for a complete list of supported file types per license.

	Import	Export
<b>Point Cloud</b>	Files ASCII (*.asc, *.csv, *.xyz, *.yxz...) Leica Geosystems (*.pts, *.ptx) and LGS (*.lgs) Leica Nova MS50/60 (*.sdb, *.xml) ShapeGrabber (*.3pi) 3DReshaper binary file (*.nsd) AutoDesk DXF (*.dxf) STL (*.stl) Polyworks (*.psl) Leica T-Scan + Steinbichler (*.ac) LIDAR data (*.las; laz) Other ASCII (*.*) Zoller and Fröhlich *(.zfs - *.zfc) PLY points without triangles (*.ply) ESRI ASCII (raster format *.asc) FARO (*.fls - *.fws) POLYWORKS (*.psl) E57 (*.E57 files) LandXML files (*.xml) DOT Products (*.dpl) RDBX	ASCII FILES (*.asc, *.csv...) Binary files (*.nsd) Leica Geosystems (*.pts, *.ptx) E57 (*.e57) IGES (*.igs) LAS (*.las) LAZ (*.laz) Autodesk DXF (*.dxf)
<b>Mesh</b>	STL format (*.stl) Binary PBI format (*.pbi) DXF 3Dface format (*.dxf) Ascii POLY format (*.poly) OBJ format (*.obj) Ascii Leica format (*.msh) VRML files (*.wrl / *.vrml / *.iv) OFF files (*.off) PLY (*.ply)	Ascii and binary STL format (*.stl) Binary PBI format (*.pbi) DXF 3Dface format (*.dxf) Ascii POLY format (*.poly) Vertices only (*.asc) DXF polyline (*.dxf) STEP file (*.stp) Ascii Leica format (*.msh) VRML 2 (*.wrl / *.vml / *.iv) PLY (*.ply) LandXML (*.xml) OBJ format (*.obj)
<b>Contour / Section</b>	IGES format DXF polyline format	IGES format DXF polyline format

	Binary MLI format (*.mli)	Binary MLI format (*.mli) ASCII formats
<b>CAD Model</b>	IGES STEP DWG IFC RVT	IGES STEP DXF
<b>Project</b>	Cyclone 3DR (*.3dr) DXF - DWG XML Cyclone ModelSpace View (from IMP) JetStream Enterprise project	Cyclone 3DR (*.3dr) DXF PDF 3D SKETCHFAB
<b>Image</b>	BMP JPEG JPG PNG	Ortho-image including georeferencing information as TXT file JPG JPEG BMP PNG TIF GIF