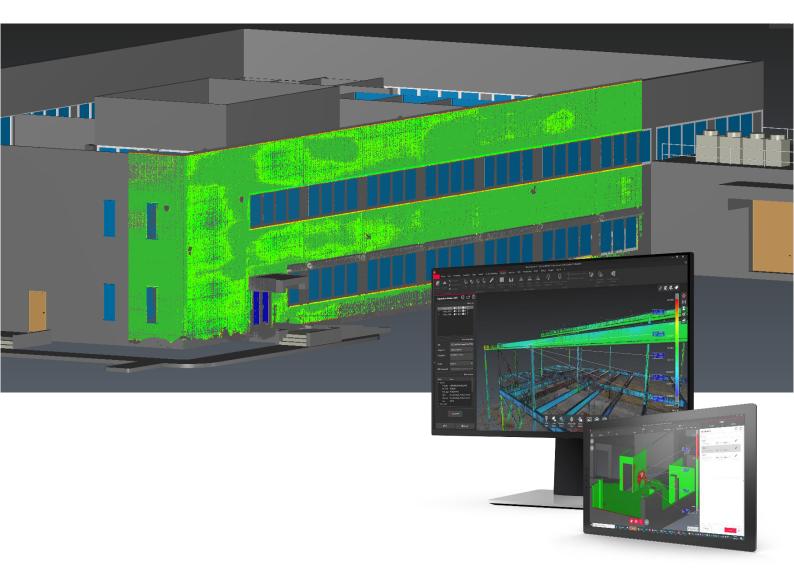


Leica Geosystems Release Notes

Product:	Leica Cyclone 3DR 2022.1.3
Date:	3 October 2022
From:	HDS Software Product Management





Leica Geosystems AG Heinrich-Wild-Strasse CH-9435 Heerbrugg Switzerland

Contents

What's New	3
Improvements	3
Bug Fixes	
Deprecated Features	
Generic specifications	4
Leica Cyclone 3DR 2022.1 Compatibility	
Recommended Computer Specifications	
Installation and Licensing Recommendations	
Installation update Procedure	
Licensing Setup	5
Licensing	9
Known Issues	
Leica Cyclone 3DR supported file formats	10

What's New

This is a minor release including bug fixes for stability.

According to the maintenance expiration date policy, users under maintenance on 12 June 2022 may access version 2022.1.3 with no new license required.

Improvements

- File > Import / Export GLB-GLFT: The UP-Vector consistency between GLTF standard (Y+) and Cyclone 3DR Standard (Z+) has been improved for the coordinate management interface.
- File > Import OBJ: A compound mesh is automatically generated when importing a mesh that contains multiple parts.
- **Report:** The density of the displayed point clouds in saved viewsets for the report has been increased.

Bug Fixes

- **3D Scene:** fixed a bug that prevented textured meshes with spherical images from being rendered with a smooth surface.
- **3D Scene > Vector toolbar > Normal direction:** Fixed inaccurate results when picking a local normal or the component direction on a mesh.
- File > Export FBX: fixed a bug that resulted in improper textures of exported mesh models when displayed in Autodesk Navisworks.
- **Report Editor:** Fixed a crash happening when using the ribbon menu while a popup is opened.
- Script: Repaired the following script functions:
 - SMultiline.Offset()
 - SPoly.SeparateTriangleSize()
- **Texturing > Texture Material:** Fixed a bug that could cause the current texture to be removed when trying to set a new origin.
- Viewer application: IFC and CAD import has been reactivated.

Deprecated Features

Leica Geosystems strives to provide support for the widest array of operating systems and file formats possible as is reasonable given current technologies and support from third-party partners. With each release, we review our list of currently supported formats and operating systems in line with industry trends and announced product terminations.

Leica Geosystems may add or terminate support for a file format during any release. Obsolete operating systems will be supported for six months after their announced termination or the next major software release, whichever comes first. Server products will be supported in alignment with Leica's Client License Manager (CLM) supported servers to guard users against incompatibility.

In Cyclone 3DR 2022.1.3:

• Script: The parameters MaxCosAngle and IsCheckThinParts of SPoly.Compare() with another SPoly object are now deprecated.

Generic specifications

Leica Cyclone 3DR 2022.1 Compatibility

Cyclone 3DR is compatible with CLM 2.5.0.0 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 ENTERPRISE 2022.0 and higher.

Cyclone 3DR is compatible with Cyclone REGISTER 360 2021.1 and higher.

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

Regular workflows in desktop application:

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, 11 (64 bits supported) Hard Disk: 3 GB free disk space

Tablet device for Touch Mode:

Microsoft Surface PRO Core i7 1.5 GHz – 16GB RAM.

Minimum specifications for Auto-classification (in addition to other recommended specifications for the desktop application:

RAM: minimum 32 GB

Graphic Card: NVidia with GPU capabilities

Hard Disk:10 GB free disk space

CUDA® 11.2 Toolkit (from NVidia). <u>The 11.2 version of CUDA is mandatory for Auto-</u> <u>Classification.</u>

Installation and Licensing Recommendations

Installation update Procedure

1. Follow the directions in the Setup Wizard

Cyclone 3DR 2022.1	- 🗆 X
	Welcome to the Cyclone 3DR Setup Wizard
	This will install Cyclone 3DR on your computer.
	It is recommended that you close all other applications before continuing.
	Click Next to continue, or Cancel to exit Setup.
Cyclone 3DR	
Leica Geosystems	
leica-geosystems.com	Next > Cancel

2. Select the option to update Cyclone 3DR (or repair if you want to change installing options)

Cyclone 3DR 2022.1			-		×
Update Cyclone 3DR?					
An older version exists.					
Select an option					
Update (Keep the same options as the previous installation)					
Add / Remove component(s)					
leica-geosystems.com	< Back	Next	>	Ca	ncel

3. Complete the installation by selecting "Finish".

Licensing Setup

 Once you have installed Cyclone 3DR, open the Client License Manager for Floating Licenses. The program is located here: Start Menu | All Programs | Leica Geosystems | Client License Manager

		-
<u>а</u> сім	-	
Licenses Settings About		
Licenses Usage Q	0	+ Add
Feature	in Use/Total	
> 3DR_Base	0/1	
> 3DR_CAD	0/1	
> 3DR_CW	0/1	
> 3DR_Image	0/1	
> 3DR_Lic.DemoInt	0/1	
> 3DR_Maint	0/1	
> 3DR_ServiceInfo	0/1	
> 3DR_Survey	0/1	
> 3DR_Tank	0/1	
TIS CIWRY ACAD Basic	0/1	

NOTE Be sure to choose the CLM Floating option (there are two CLM options and the Nodelocked CLM will not activate your license)

2. Choose the "Activate new licenses" option.

CLM Licenses Settings About		- 0	>
Licenses Usage Q		Q +Ad	id
Feature	In Use/Total	-	
> 3DR_Base	0/1		
> 3DR_CAD	0/1		
> 3DR_CW	0/1		
> 3DR_Image	0/1		
> 3DR_Lic.DemoInt	0/1		
> 3DR_Maint	0/1		
> 3DR_ServiceInfo	0/1		
> 3DR_Survey	0/1		
> 3DR_Tank	0/1		
TLS CIWRX ACAD Basic	0/1		

3. Enter your Entitlement ID (EID) in the field. To enter multiple EIDs separate them with a semicolon ";" and no space.

CLM		-		×
Licenses Settings About				
Licenses Usage Q		Q	+ Ad	
Feature	Add license ×			
> 3DR_Base	50			
> 3DR_CAD				
> 3DR_CW				
> 3DR_Image				
> 3DR_Lic.DemoInt				
> 3DR_Maint				
> 3DR_ServiceInfo	X Cancel Do you want to activate a license offline?			
> 3DR_Survey	V cancer bo you want to activate a notifier of initiate of the second se			
> 3DR_Tank	0/1			
> TLS CLWRX ACAD Basic	0/1			

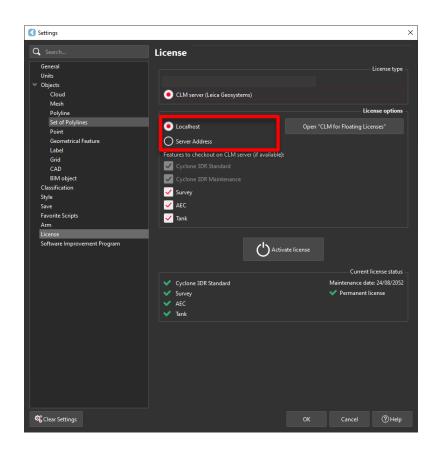
4. After you have entered your EID, choose the "Check for Activatable licenses" button in the bottom right of the page

CLM			-	- 0	×
Licenses Settings About					
Licenses Usage Q			C	•	dd
Feature	Add license	×			
> 3DR_Base	ED				
> 3DR_CAD					
> 3DR_CW					
> 3DR_Image					
> 3DR_Lic.DemoInt					
> 3DR_Maint					
> 3DR_ServiceInfo		e 🗸 Add			
> 3DR_Survey	Cancel Do you want to activate a license offlin	e Add			
> 3DR_Tank	0/1				
> TLS CLWRX ACAD Basic	0/1				

- 5. Once your licenses are activated you can launch Cyclone 3DR.
- 6. Go to Settings and select License.

Settings			×
Q Search	License		
General			License type
Units			License type
✓ Objects			
Cloud	 CLM server (Leica Geosystems) 		
Mesh			
Polyline			License options
Set of Polylines	Localhost	Open "CLM	for Floating Licenses"
Point Geometrical Feature	Server Address		
Label	U U		
Grid	Features to checkout on CLM server (if available):		
CAD	🗸 Cyclone 3DR Standard		
BIM object	Cyclone 3DR Maintenance		
Classification	Survey		
Style			
Save	AEC		
Favorite Scripts	🖌 Tank		
Arm			
License Software Improvement Program			
Software Improvement Program	(') Activ	ate license	
	$\mathbf{}$		
			Current license status
	✓ Cyclone 3DR Standard	N	Maintenance date: 24/08/2052
	✓ Survey		Permanent license
	✓ AEC		
	✓ Tank		
% Clear Settings		ок	Cancel ⑦ Help
we creat settings		OK	Cancer

7. If you have entered the EID inside your local CLM, select **Localhost**. If the license is on a dedicated server, enter the server name in **Server Address**.



8. You can select the features you want to check out from CLM. The available options to checkout will correspond to the options you purchased which are contained in your EID.

Settings				
Q Search	License			
General Units ♥ Objects Cloud	• CLM server (Leica Geosystems)			- License type
Mesh			lie	ense options
Polyline Set of Polylines Point	Localhost	Open "C	LM for Floating Lic	
Geometrical Feature Label Grid CAD BIM object	Server Address Features to checkout on CLM server (if available) Cyclone 3DR Standard Cyclone 3DR Maintenance			
Classification Style Save Favorite Scripts	✓ Survey ✓ AEC ✓ Tank			
Arm License				
Software Improvement Program	C Activ	vate license		
			Current	license status -
	 Cyclone 3DR Standard Survey AEC Tank 		Maintenance da ✓ Permanent I	
📽 Clear Settings			Cancel	(?) Help

9. Once the options are selected, click on **Activate license**.

Settings		
Q Search	License	
General Units Objects Cloud		License type
Mesh	• CLM server (Leica Geosystems)	
Polyline		License options
Set of Polylines	 Localhost 	Open "CLM for Floating Licenses"
Point Geometrical Feature	Server Address	
Label	U	
Grid	Features to checkout on CLM server (if available	e):
CAD	Cyclone 3DR Standard	
BIM object	Cyclone 3DR Maintenance	
Classification	Survey	
Style		
Save	AEC	
Favorite Scripts	🖌 Tank	
Arm License		
Software Improvement Program	ل Acti	ivate license
		Current license status
	 Cyclone 3DR Standard 	Maintenance date: 24/08/2052
	 ✓ Survey ✓ AEC ✓ Tank 	Permanent license

Licensing

All users with valid CCP or CCP which was valid as of 12 June 2022 for Cyclone 3DR, can run this new version of Cyclone 3DR.

All users with valid CCP or CCP which was valid as of 12 June 2022 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

- 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
Point	Files ASCII (*.asc, *.csv, *.xyz, *.yxz)	ASCII FILES (*.asc, *.csv)
Cloud	Leica Geosystems (*.pts, *.ptx) and LGS	Binary files (*.nsd)
	(*.lgs)	Leica Geosystems (*.pts, *.ptx, *lgs)
	Leica Nova MS50/60 (*.sdb, *.xml)	E57 (*.e57)
	ShapeGrabber (*.3pi)	IGES (*.igs)
	3DReshaper binary file (*.nsd)	LAS (*.las)
	AutoDesk DXF (*.dxf)	LAZ (*.laz)
	STL (*.stl)	Autodesk DXF (*.dxf)
	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	
Mesh	STL format (*.stl)	Ascii and binary STL format (*.stl)
	Binary PBI format (*.pbi)	Binary PBI format (*.pbi)
	DXF 3Dface format (*.dxf)	DXF 3Dface format (*.dxf)
	Ascii POLY format (*.poly)	Ascii POLY format (*.poly)
	OBJ format (*.obj)	Vertices only (*.asc)
	Ascii Leica format (*.msh)	DXF polyline (*.dxf)Ascii Leica format
	OFF files (*.off)	(*.msh)PLY (*.ply)
	PLY (*.ply)	LandXML (*.xml)
	GLB format (*.glb, *gltf)	OBJ format (*.obj)
		GLB format (*.glb)
		FBX format (*.fbx)
		IFC / IFCSite type (*.ifc, *.ifczip)

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

Cyclone 3DR provides "SendTo" features as well to import and export certain kinds of data with third-party products. More information is available in Cyclone 3DR documentation center (from the software help menu).

		Send From	Send To
Point Cloud	I	-	-
Mesh	1	AUTODESK AutoCAD	AUTODESK AutoCAD
Surfaces		HEXAGON MineSight 3D	HEXAGON MineSight 3D
Contour	1	AUTODESK AutoCAD	AUTODESK AutoCAD
Section Points	/	HEXAGON MineSight 3D	HEXAGON MineSight 3D
CAD Model		AUTODESK AutoCAD	-
Image		-	AUTODESK AutoCAD (ortho-image)