

# Leica Geosystems Release Notes

**Product** Leica Cyclone REGISTER 360 2020.1  
**Date** 15 July 2020  
**From** HDS Software Product Management

## Contents

WHAT'S NEW .....	<b>3</b>
Model compatible LGS files .....	3
Compatibility .....	4
Renaming setups in Cyclone FIELD 360 .....	5
Improved RTC360 import times .....	5
BUG FIXES .....	<b>5</b>
Import Bugs .....	5
UX bugs .....	5
Publishing Bugs .....	5
LEICA CYCLONE REGISTER 360 2020.1 COMPATIBILITY AND UPGRADES .....	<b>6</b>
Compatibility .....	6
Deprecated Features .....	6
KNOWN ISSUES .....	<b>7</b>
Importing from Cyclone FIELD 360 .....	8
Cleaned vs. Uncleaned pano layer publishing .....	8
BLK2GO E57 Support .....	8
Modified usage for Japanese OS .....	8
Non-ASCII characters .....	8
Blurred images within ReCap .....	8
Usage file reporting issue for EnterpriseElite Customers .....	8
Installing CLM while JetStream is running .....	9
RCP publish dialog progress reporting .....	9
LGS usage over network .....	9



## What's New

This is a major release including support for publishing LGS files compatible with JetStream Viewer 2020.1's new IFC and OBJ model capabilities.

### Model compatible LGS files

With this release, Cyclone REGISTER 360 now published LGS files which support loading IFC and OBJ models within JetStream Viewer.

JetStream Viewer has taken the major step forward of supporting common model formats within the viewer. Users can now view their LGS reality capture data at the same time as IFC and OBJ models to support a variety of visualization and QA workflows, including:

- Crime scene visualization and presentations with Snapshots and Markups
- Visual QA of as-built conditions against design models
- Visual inspection or fitting of equipment and rough path planning for installation
- Customer visualization of new building projects or additions in context

JetStream Viewer remains a free viewer that can be installed locally or run from a thumb drive, making it the perfect addition to customers' existing reality capture workflows and a wonderful tool for client communication. The Snapshot, Markup and presentation tools in the Viewer now support models as well, allowing users to create engaging and descriptive presentations of their projects that can be saved as LGS files to be shared with others.

The speed and performance that users expect from reality capture data in JetStream Viewer extends to model support. Models are loaded into projects in a matter of seconds and then, once saved to the file, load instantly with every subsequent use of the file. Dozens of models can be loaded into a single scene without affecting performance.

Extra care has been paid to making model support a seamless extension of the JetStream Viewer experience with streamlined navigation supported via mouse, keyboard or touch and a new Cyclone REGISTER 360-style Assistant Panel that provides contextual help and tips.

This product offers huge added value to customers with a Cyclone PUBLISHER Pro license. When published from Cyclone CORE 2020.1 or later, the Cyclone REGISTER 360 family 2020.1 or later as LGS or into JetStream Enterprise 2020.1 or later and then re-published as an LGS, with a Cyclone PUBLISHER Pro license\*, LGS files will support model viewing and saving models via the existing "Save As" command (similar to the existing workflow to save Snapshots).

This release requires synchronous 2020.1 versions of each product for publishing data, accessing the new model features in the viewer, and saving updates.

*\* Or a Cyclone PUBLISHER Pro equivalent license, which includes Cyclone JetStream PUBLISHER or Cyclone TruView PUBLISHER licenses with active CCP from within the mentioned 2020.1 product versions.*

## Compatibility

### Point cloud compatibility

JetStream Viewer 2020.1 supports models in LGS files only. LGS files must be published from Cyclone CORE 2020.1 or later, the Cyclone REGISTER 360 family 2020.1 or later as LGS or into JetStream Enterprise 2020.1 or later and then re-published as an LGS, with a Cyclone PUBLISHER Pro license\*

*\* Or a Cyclone PUBLISHER Pro equivalent license, which includes Cyclone JetStream PUBLISHER or Cyclone TruView PUBLISHER licenses with active CCP from within the mentioned 2020.1 product versions.*

At this time, models cannot be added to JetStream Enterprise projects.

Reference the following table to determine if models are supported in your LGS file.

<b>LGS Published from</b>	<b>PUBLISHER License</b>	<b>Supports Adding Models</b>
Cyclone 2020.1	PUBLISHER Standard	✗
Cyclone 2020.1	PUBLISHER Pro	✓
Cyclone 2020.1	JetStream PUBLISHER (with active CPP)	✓
Cyclone 2020.1	TruView PUBLISHER (with active CPP)	✓
Cyclone REGISTER 360 family 2020.1	PUBLISHER Standard	✗
Cyclone REGISTER 360 family 2020.1	PUBLISHER Pro	✓
Cyclone REGISTER 360 family 2020.1	JetStream PUBLISHER (with active CPP)	✓
Cyclone REGISTER 360 family 2020.1	TruView PUBLISHER (with active CCP)	✓
JetStream Enterprise 2020.1	From any version of the Cyclone REGISTER family with PUBLISHER Standard	✗
JetStream Enterprise 2020.1	From Cyclone REGISTER family 2020.1 or later with PUBLISHER Pro	✓
JetStream Enterprise 2020.1	From Cyclone REGISTER family 2020 or earlier with PUBLISHER Pro	✗
JetStream Enterprise 2020.1	From Cyclone REGISTER family 2020.1 or later with JetStream PUBLISHER (with active CPP)	✓
JetStream Enterprise 2020.1	From Cyclone REGISTER family 2020 or earlier with JetStream PUBLISHER (with active CPP)	✗
JetStream Enterprise 2020.1	From Cyclone REGISTER family 2020.1 or later with TruView PUBLISHER (with active CCP)	✓
JetStream Enterprise 2020.1	From Cyclone REGISTER family 2020 or earlier with TruView PUBLISHER (with active CCP)	✗
JetStream Enterprise 2020 or earlier	Any license level	✗
Cyclone 2020 or earlier	Any license level	✗
Cyclone REGISTER 360 family 2020 or earlier	Any license level	✗

## Renaming setups in Cyclone FIELD 360

Cyclone REGISTER 360 now honours the renaming of setups completed in Cyclone FIELD 360. Please reference Cyclone FIELD 360 documentation for information about creating a naming scheme for BLK360 scans.

---

***Note: This feature requires Cyclone FIELD 360 2.4 and BLK360 Firmware velImproversion 2.0 which will be replaced later this summer.***

---

## Improved RTC360 import times

Import times have been improved for low and medium resolution RTC360 scans with images.

- Low resolution will see 19-32% time saving.
- Medium resolution will see 15-30% times saving.

---

***Note: results may vary based on computer specs. A dedicated graphics card is recommended for optimum import performance.***

---

## Bug Fixes

### Import Bugs

- Corrected a bug which could result in imports being stopped midway for users working with Italian language settings

### UX bugs

- Corrected a bug that resulted in the truncation of control point digits in the properties panel, though the correct number was being used for applied control.
- Corrected a bug with the control points properties panel which could result in points being hidden when sorting the table.
- Corrected a bug that could cause irregular behaviour of the fencing tool when opening and closing the side panels.
- Corrected a bug that caused the control points to be listed in meters when program settings were set to feet.
- Corrected a bug that could cause disabled control points from being re-applied upon re-opening a project.
- Corrected a bug that could cause GeoTags to be misplaced when two or more BLK2GO files are imported into the same project.

### Publishing Bugs

- Publish to TruView Enterprise has been restored to the publishing options. Choosing this option will publish without points.
- Corrected a bug that caused TruView Local files to appear to publish and result in an empty folder when using a Cyclone PUBLISHER license. This issue did not appear when publishing with a Cyclone PUBLISHER Pro license.
- Corrected a bug that could cause Faro scans to be published to the ReCap format without colour.
- Corrected a bug that could prevent users from publishing projects that do not contain HDR images.

# Leica Cyclone REGISTER 360 2020.1 Compatibility and Upgrades

## Compatibility

The Cyclone REGISTER 360 family requires corresponding releases of Cyclone CORE, JetStream Enterprise, JetStream Viewer, and TruView Enterprise/Cloud for features to function correctly:

	Cyclone CORE	Cyclone REGISTER 360	Cyclone REGISTER 360 (BLK Ed.)	JetStream Enterprise	JetStream Viewer	TruView Enterprise and Cloud
Import Cyclone REGISTER 360 Projects (BASIC, REGISTER, MODEL, or SURVEY)	9.2 or higher					
Import Cyclone REGISTER 360 (BLK Edition) Projects (BASIC, REGISTER, MODEL or SURVEY)	9.4.2 or higher	1.6.2 or higher	1.6.2 or higher			
Support BLK2GO data	2020 or higher	2020 or higher	2020 or higher	2020 or higher		
Consume published HDR panorama images published as JetStream Enterprise projects				1.4.1 or higher	1.4.1 or higher	
Publish to JetStream Enterprise	9.1.4 or higher	1.4 or higher	1.6.2 or higher	1.4 or higher		
View Multi SiteMap hyperlinks		1.5 or higher	1.6.2 or higher			3.0 or higher
Publish LGS files	9.3 or higher		1.6 or higher	1.5 or higher		
View projects or LGS files containing pano image layers	9.3 or higher				1.5 or higher	3.6 or higher
Consume LGS files	9.3 or higher			1.5 or higher	1.5 or higher	3.6 or higher
Publish password protected LGS files	9.3 or higher	1.6 or higher	1.6.2 or higher	1.6 or higher	1.6 or higher	
Consume password protected LGS files	9.3 or higher			1.6 or higher	1.6 or higher	3.8 or higher
Publish model compatible LGS files	2020.1 and higher	2020.1 and higher	2020.1 and higher	2020.1 and higher	2020.1 and higher	

## 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.

Please reference the Leica Geosystems Deprecated Features policy for a complete listing of discontinued features, formats and operating systems.

Cyclone REGISTER 360 2020:

- TVG files are no longer published. Users should use the LGS format. If a TVG is required, users can Publish to TruView Local and run the dataset through the free utility Leica Pack&Go.
- JSV files are no longer published. Users should use the LGS format.

## Known Issues

- After editing an HDR tone map, other Versions created will still show the original tone map in the thumbnail but the Pano and point cloud will be correct.
- The 2-billion-point limitation has been removed from publish to RCP.
- RCP publish must use a temp folder located ONLY on C drive.
- This is a limitation from ReCap
- 30 GB of temp space is need for every billion points exported to a single RCP cloud.
- Using export to separate setups does not use the same level of temp space. Temp space is not generally a problem when exporting separate setups.
- Virtual Machine (VM) environments are not supported.
- Remote Desktop is only supported if Cyclone REGISTER 360 is opened in the remote computer first. Trying to open Cyclone REGISTER 360 through remote desktop is not supported.
- Cyclone REGISTER 360 will not detect the dedicated graphics card on computers with multiple graphics cards. Users must manually set the dedicated card for use with Cyclone REGISTER 360. This is done with the Nvidia Control Panel for Nvidia graphics cards, or with the Catalyst Control Centre for ATI/AMD graphic cards
- Importing data over a network can cause issues, especially on Windows 10. The workaround is to copy the scan data to a local disk.
- If memory issues arise, check and make sure that the virtual memory size is set to the same size as RAM.
- Automatic image matching of imported panoramic images may not always be correct.
- The zoom scale bar will be captured in the image in the import area using the satellite or street map.
- Project thumbnails (the image shown in the project explorer) are not preserved in the \*.raf export file.
- F1 contextual help will not work with Microsoft Edge browser as the default browser. The workaround is to use Chrome or Firefox as the default browser.
- The auto extraction of Black & White targets will not extract targets from detail scans. The extractor works on the main scan only. The targets can be manually extracted from the detail scans after import.
- Files written to the temp folder at *C:\Users\{user name}\AppData\Local\Temp\Register360*, will be deleted after the program closes. These files will NOT be deleted if the program freezes or crashes.
- In rare cases the bundle will show an optimized state, but there is still an unoptimized link in the bundle (not shown with a dotted line). Optimize the bundle to resolve the issue or split the bundle into smaller bundles and look for the suspect dotted line link, delete this link and re-optimize.
- The SiteMap name cannot have non-Latin (Japanese, Chinese, etc.) characters for publishing to TruView Enterprise or TruView Cloud.
- The currently active Project should not be re-named from the Projects & Storage settings. You should close the project before renaming it.
- When a setup has a UCS created from it, the UCS must first be deleted before the setup can be deleted from the project.
- On rare occasions HDR images may appear grey with very little variation. The workaround is to open the image with the Tone Map Editor and re-save the image.
- Some graphic card anomalies can be caused by power management software. Please turn off by setting the power management profile to High performance.

- In certain cases when measuring between points and comparing to control with large coordinates, the measurement can appear not to match. If exported and view in a LGS file or in JetStream Viewer there is no issue.
- If all points are deleted from a setup, it cannot be published to RCP.
- In some cases, publishing to TruView Enterprise may present an incorrect error message that states that the deliverable was created before Cyclone REGISTER 360 1.5. to avoid this, select the ... button and enter the file path.

## Importing from Cyclone FIELD 360

Only BLK360 projects will appear when the user connects to Cyclone FIELD 360. Cyclone FIELD 360 does not store full project data for the RTC360 and projects should be imported directly from the scanner.

## Cleaned vs. Uncleaned pano layer publishing

When publishing an LGS file, the Hue and Greyscale pano layers will show the uncleaned cloud.

---

***A workaround would be to publish to E57 and then re-import the data then publish to LGS.***

---

## BLK2GO E57 Support

Due to the unstructured nature of BLK2GO data, E57 files created from the scanner will not be supported for import into Cyclone REGISTER 360 2020 or earlier. Users should save original B2G files for future use.

## Modified usage for Japanese OS

Japanese OS language preference is not selected by default and causes issues with some Cyclone REGISTER 360 imports.

The user can fix this by manually selecting the language within preferences.

1. On the Japanese OS machine, launch Control Panel
2. Select region(地域) and click on the accept button indicated
3. Check "Use Unicode UTF-8 for worldwide language support"
4. Reboot

## Non-ASCII characters

Non-ASCII characters are not allowed in the following conditions:

- Import temp path

## Blurred images within ReCap

In some cases, E57 files published from Cyclone REGISTER 360, when imported into ReCap, may display blurred imagery when entering the Setup location sphere. This is a known issue with ReCap. RCP files published from Cyclone REGISTER 360 do not show any display issues.

## Usage file reporting issue for EnterpriseElite Customers

When using the standalone CLM installer, some EnterpriseElite users may find that the usage file (year-month.db) normally located at *C:\Leica Geosystems\CLM\LogFiles* does not get produced.

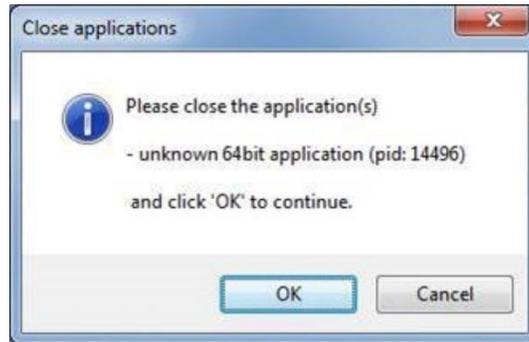
Please ensure your lgs.opt file (located here: C:\Program Files (x86)\Common Files\Leica Geosystems\License-Server\lgs.opt) looks like this:

```
DEBUGLOG + "C:\Leica Geosystems\CLM\LogFiles\lgs.log"  
NOLOG IN  
TIMEOUTALL 240  
ENABLE_DB_HISTORY 1  
PATH_DB_HISTORY C:\Leica Geosystems\CLM\LogFiles
```

ENABLE\_DB\_HISTORY should be set to **1** in this file. Please copy the file to a new location, edit it and re-save if the file says it's read-only.

### Installing CLM while JetStream is running

During installation of CLM, users may encounter the following error message. This is commonly due to a service like JetStream running in the background.



To enable the successful installation of CLM, please follow these steps:

- Launch the task manager
- Select the Services tab
- Look up the process with the PID (Process ID) shown in the Close applications dialog
- In this case it is JetStream
- Terminate the process so that CLM can be installed
- After CLM is installed, click on the Services button in the Task Manager and restart the service

### RCP publish dialog progress reporting

When publishing an RCP file, the progress will appear to stall at a certain interval. Though the progress bar does not update, the export is progressing. Users may check the task manager to ensure that the service is still functioning.

### LGS usage over network

The use of LGS files is only supported when the files are saved locally. Due to variations between network deployments LGS files may be unreliable when published to a network location.

## Licensing

All users with valid CCP for either Cyclone REGISTER 360 (Standard Edition) or Cyclone REGISTER, or with CCP valid as late as 15 June 2020, can run this new version of Cyclone REGISTER 360 (Standard Edition) with no new license required.

All users with valid CCP for Cyclone REGISTER 360 (BLK Edition) or with CCP valid as late as 15 June 2020 can run this new version of Cyclone REGISTER 360 (BLK Edition) with no new license required.

Users of Cyclone REGISTER 360 (Standard Edition) and Cyclone REGISTER cannot run Cyclone REGISTER 360 (BLK Edition) with active CCP. Users must purchase a separate license to run this product.