

Leica Geosystems Release Notes

Product Leica Cyclone 2021.1.2
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What's New

This is a minor release to support cabled connection to the BLK360 imaging laser scanner.

Please reference the licensing section at the end for information about CCP compatibility.

Support of Cable connection to BLK360 scanner

As of this release, Cyclone now supports downloading setups from the BLK360 scanner with a cable connection. WiFi based downloading is still supported.

Requirements:

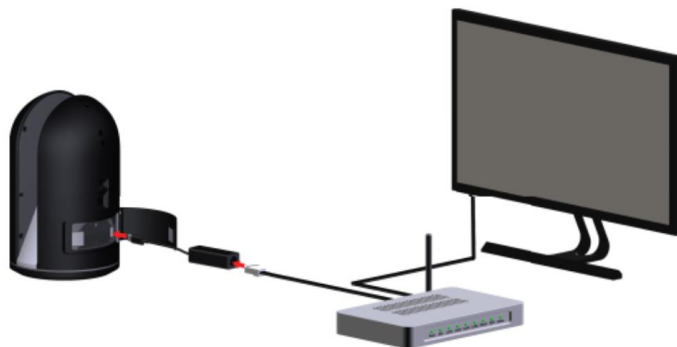
- BLK360 firmware v 2.1 or later
- USB-C to Gigabit-Ethernet adapter (on BLK360 side)
- Ethernet LAN cable
- PC with Gigabit-Ethernet (can be via Gigabit-Ethernet adapter as well)

There are two types of cable connection supported:

- Direct connection to a laptop or desktop computer.



- Connection to a LAN (i.e. Office network)



Please see **Leica BLK360 Release Notes v2.1.0.pdf** located here in the Cyclone install directory- *C:\Program Files\Leica Geosystems\Cyclone\Leica BLK360 Release Notes v2.1.0.pdf*, for detailed information about adaptor usage and BLK360 settings necessary for cable connection.

Support for the BLK360 API updated to v2.4.5

Bug Fixes

- Fixed an issue where the command- *Set Parent ScanWorlds Default Clouds*, would not work with unified or imported point clouds in the ModelSpace.

Leica Cyclone 2021.1.2 Compatibility and Upgrades

Windows 32-bit Support

As of Cyclone 9.3.1, the Windows 32-bit operating system is no longer supported.

Cyclone Database Management Recommendation

To avoid possible database inconsistencies or corruption while moving or copying databases, we recommend the following:

- Locate each IMP file in its own folder
- When copying, moving or backing up databases, copy/move/back up the complete database folder, including the IMP file, **eventlog** folder and files, and **recovery** folder and files
 - The **eventlog** records administrative events and critical errors
 - The **recovery** file keeps databases consistent, avoiding data corruption that may happen in rare situations
- When adding databases to Cyclone, a warning dialog is displayed if a database's recovery folder cannot be found when it is added to the database server. Push the **More Info** button for more information.

Upgrading to Cyclone 2021.1.2 from Cyclone 6.0.x – 2021.0

You must have Administrator-level privileges on your workstation to correctly install Leica Cyclone software.

Run the Cyclone 2021.1.2 InstallShield and follow the directions in the InstallShield Wizard to proceed with the installation. Please read the warning message about compatibility of earlier version databases as older Cyclone IMP files will be upgraded to the new version and may no longer work in older versions of Cyclone.

Compatibility with Cyclone 2021.1.2 AND Cyclone 8.1.3 or Earlier Versions

Cyclone 2021.1.2 databases are *NOT* backward compatible with previous Cyclone versions 8.1.3 and earlier. Databases that are updated to this version of Cyclone cannot then be used with versions 8.1.3 and earlier. If you need to work with your data in older versions of Cyclone, you should make an archive copy of your database(s) prior to upgrading. Since it can take some time to update and optimize Cyclone databases, we recommend that you optimize your databases overnight, particularly when multiple databases are involved.

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.

Cyclone 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.

Cyclone 2021:

- Windows 7 and 8.1 are no longer supported.

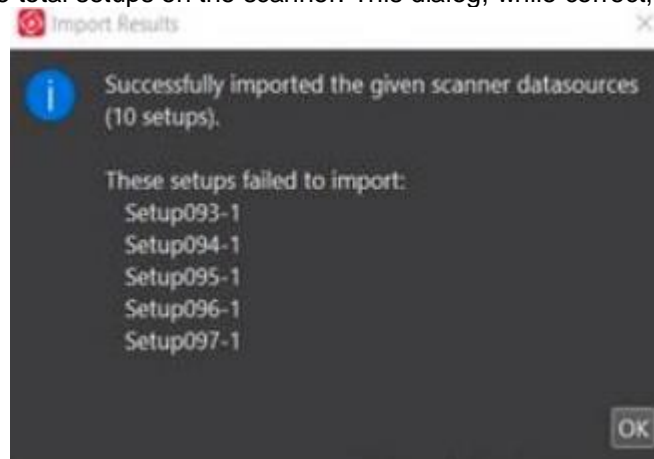
Cyclone 2021.1.2:

- Cyclone 2021.1.2 and newer releases will no longer use or install Microsoft Visual C++ 2005 or 2008 redistributable -x64.

Known Issues

BLK360 known issues

- In rare cases downloading may fail. The workaround is to restart the BLK360 scanner.
- After downloading setups from the scanner this dialog will show if the number setups selected is less than the total setups on the scanner. This dialog, while correct, should be ignored.



Using the command Export Separate Setups

There are issues when exporting to separate Setups when exporting from a nested registration and/or a referenced database.

To mitigate this issue, export from the home registration or the original database.

Mac OS's running Windows Boot Camp is not officially supported

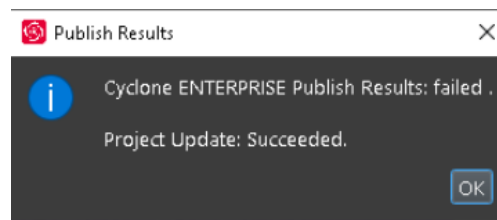
Cyclone CORE supports Windows 10 on Windows-native devices only.

When publish to Jetstream Enterprise with a large number of assets:

There can be an issue when publishing to JetStream Enterprise with a large number of assets in the project. The workaround is to publish the project to LGS and then import the LGS to JetStream Enterprise.

Cyclone ENTERPRISE Publishing

- When publishing to Cyclone ENTERPRISE, you need to enter the Host Name and Port for the target server. The Host Name should only contain the top-level domain part of the URL. In some cases, a host name may be valid for the connection test but will not work for publishing. In this case, the connection dialog will display the Project Selector. To solve this problem, edit the Host Name to remove all text after the Top Level Domain. For example: "https://mycycloneenterprise.com/abc...-////" should be trimmed to "https://mycycloneenterprise.com"
- When publishing to Cyclone ENTERPRISE fails, the error message could mean that:
 - The sever has low disk space
 - The network drive is disconnected
 - File permission error
 - Invalid file path



RCP export from ScanWorld issue

Exporting RCP from the ScanWorld, not a ModelSpace, can have issues if the ScanWorld contains detail scans. The workaround is to remove the detail scans from the scan folder.

Setups without Points

If publishing a dataset without valid ScanWorld position(s) to TruView Cloud or JetStream Enterprise, at least one Camera position needs to be added and then the publish needs to have the option to publish camera positions as Setup positions enabled

If all points are deleted from a Setup, it cannot be published to RCP.

Cyclone FIELD 360 measurement support

While Cyclone supports the display of Cyclone FIELD 360 measurements, these measurements do not propagate downstream to other products.

Inconsistent Setup icons

In rare cases where a Setup has no points and only modelled geometry, the LGS file, JetStream Enterprise project, and Cyclone ENTERPRISE project published will open with yellow tetrahedrons as the Setup icons instead of the red Spheres introduced in the 2020.0 product versions.

LGS Publishing to TruView Enterprise & TruView Cloud

In the event of problems uploading large LGS files to TruView Enterprise or TruView Cloud, a user may try to publish another version of the LGS file with the 'Include Point Cloud Data' option unchecked in the LGS Export Options. This option will dramatically reduce the overall file size and could help in case of a problematic TruView Enterprise/Cloud upload as well as reduce upload and import times.

Publishing to TruView Enterprise & TruView Cloud with BLK2GO data

Project data published to TruView Cloud or TruView Enterprise containing BLK2GO data will NOT contain point data image layers, but the camera-based panoramic images will be measurable. Model geometry superimposed on the imagery layers is not supported for BLK2GO data.

Non-BLK2GO data mixed with BLK2GO Scanner data will support the point cloud image layers and models.

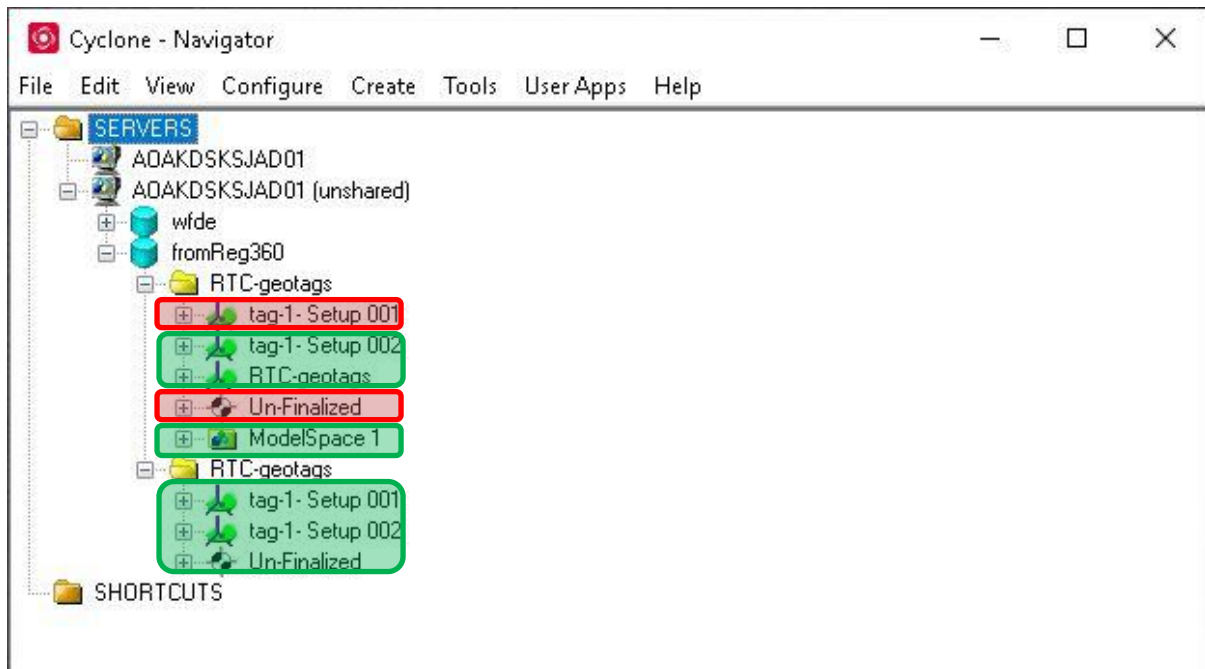
BLK Data Manager

The BLK Data manager will fail to connect to the BLK2GO scanner if there are no scans on the scanner.

Importing Projects with GeoTags from the Cyclone REGISTER 360 Family

GeoTags will be imported into Cyclone from a REGISTER 360 product in the following ways:

- Importing a Deliverable: GeoTags will be shown in the Registration ModelSpace only.
- Importing a Version: GeoTags will be shown in the individual ScanWorlds.



RCP export

The 2-billion-point limitation has been removed from export to RCP.

- 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.

RCP export will fail if the Setup exported has zero points. The workaround is to restore the points for the Setup, export again.

Blurred images within ReCap

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

The E57 export using the new Compatibility mode option (see details above in feature description) may help with this issue.

4K and 5K Imagery with TruView Local (ActiveX plugin) and Internet Explorer

The TruView Local plugin for Internet Explorer does not officially support 4K and 5K imagery or the LGS file. To take advantage of these features, we recommend TruView, TruView LIVE (part of Cyclone ENTERPRISE), TruView Enterprise or TruView Cloud.

Batch import Panoramic images

When using the Command **Import Panoramic images...** Images and scans in the import panel dialog may appear blank. The workaround is to resize the window.

Scanner locations are no longer visible in the ModelSpace when automatically created during Pegasus data import

When importing Pegasus mobile scan data into Cyclone, the user is provided the option to automatically create ScanWorld positions at a user-defined interval along the trajectory. These are used for the creation of TruView positions at these virtual "Setup" positions.

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.

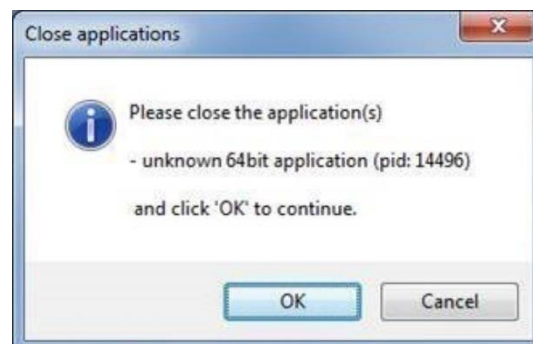
Please ensure your lgs.opt (located here: *C:\Program Files (x86)\Common Files\Leica Geosystems\License-Server\lgs.opt*) file looks like this:

```
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 Enterprise server 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

LGS usage over network

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

Object behavior with ModelSpace Inventory Table objects or layers set to Unselectable

Selection from the table does not highlight the object in ModelSpace if the Object Type or the Layer is set to unselectable. Object Type and Layer selectability settings can be changed from **View Properties**.

Generating auto-patches for data without HDS file

Generating auto-patches requires an HDS file, which some older databases (2014 and prior) may lack. Currently, HDS file creation is NOT performed when preparing the data for auto generating patches; therefore, the only way to ensure existence of HDS file is re-importing the data.

PTG Export

Please only export uncleaned data to PTG.

Older PyCylinder scripts require new end cap parameters

If a Python script containing the PyCylinder object was created using an older version of the API, you will need to add the two new properties to the end of your existing objects. They can both be made the default value of 0 if you do not want to use them. The parameters are required; without them the script won't run.

Licensing

Cyclone 2021.1.2 is a minor release. All users with currently valid CCP, or with CCP valid as of 22 February 2021, can run the latest version with no new license required.