Leica Geosystems
Release Notes

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What’s new

Support for the new Leica RTC360 scanner

Full support of the RTC360 scanner and Cyclone FIELD 360 let users harness the power of their scanning solution to reduce processing time and increase accuracy.

- Cyclone REGISTER 360 will conduct automated Registration from the scanner’s Visual Inertial System (VIS), or Cyclone FIELD 360 pre-registration links
  - Reduce processing time by taking advantage of the RTC360’s sensor array and onboard processing power.
- Cyclone REGISTER 360 leverages the RTC360’s GPS data to locate setups on a satellite map in the Import area
  - Quickly position multiple bundles for efficient processing, simple joining and geolocation.
- Cyclone REGISTER 360 supports Double Scan cleaning
  - Cyclone REGISTER 360 compares the RTC360’s “double scans” and automatically filters out noise to save time cleaning and improve the accuracy of a project during import
- Cyclone REGISTER 360 supports the import of Cyclone FIELD 360 Tags and Assets as well as their viewing and publishing as GeoTags and Assets for downstream consumption
  - GeoTags and Assets are transferable downstream to TruView and JetStream product families for smarter data access.
- Cyclone REGISTER 360 fully supports HDR imagery panoramas
  - Take full advantage of the RTC360’s camera array for unparalleled image fidelity and use downstream in TruView and JetStream
  - Users can access all HDR data thanks to an intuitive slider for viewing all exposures captured by both the RTC360 and the BLK360.
- Cyclone REGISTER 360 fully supports HDR for point clouds (supported in JetStream Viewer)
  - Leverage the camera array for improved point cloud visualization in both Cyclone REGISTER 360 and JetStream Viewer

Support for LGS, Leica Geosystems Universal HDS Digital Reality File

Leica Cyclone REGSITER 360 now supports the publishing of LGS files, Leica Geosystems’ new universal HDS digital reality file. LGS files contain all project information for a single-file solution for downstream consumption in all Leica Geosystems HDS software. The LGS file is perfect for storage and transfer between all Leica Geosystems’ HDS software products. The LGS file is a true single file, to simplify file sharing.

LGS files require a Cyclone PUBLISHER Pro License. LGS files can be consumed by Cyclone, TruView Enterprise and Cloud, JetStream Enterprise and Viewer, and 64-bit CloudWorx plugins to allow for seamless data migration between the Leica Geosystems HDS software products. With the LGS file, users can access all their digital reality data, anywhere, with a single file.

LGS files may contain the following information based on the hardware used for data capture and the user’s publishing settings.

- PROJECT METADATA
Users may choose to publish an LGS file with or without a point cloud. When publishing specifically and only for consumption in TruView, it is recommended that the LGS file be published without the point cloud to reduce file size and prevent extended upload times.
Select resolution of Panoramic image

In the Setting menu under the General tab, the following pixel height resolutions are available: 1024x1024, 2048x2048, 4096x4096.

Note: Using a lower resolution will decrease the overall import time.

Open previously published projects in the Report tab

When a project is opened, and it has already been published, the project will open in the Report tab with the deliverable selected allowing easy access to additional exports.

Select multiple setups for use in tools

In the SiteMap view, a user can now multi-select setups to perform Visual Alignment or other methods of joining setups and bundles.

Allow the user to set the temp file directory

In the Project settings menu there is now an option to set the location of the temp directory.
Create and edit GeoTags

In Setup Cloud view, GeoTags can now be created and edited. Simply enter Setup Cloud view and click on the Create GeoTag button on the top tool bar. This provides users with greater utility within Cyclone REGISTER 360 and GeoTags are transferable to Cyclone, TruView and JetStream products.

Display IR imagery as false-color by temperature

BLK360 IR data is now supported, providing users with expanded options for viewing and querying their data. If IR data was captured during scanning, the option to view the IR image is available from the top tool bar. There is also a new command on the top tool bar next to the IR image option to query the temperature of a selected point on the IR image.

Previously imported BLK360 projects must be re-imported to take advantage of this new feature.
New preference to prioritize targets over Cloud-to-Cloud under the Cloud-to-Cloud settings

This new setting allows users to select whether targets are weighted more heavily than Cloud-to-Cloud when forming links. This is useful when a user wishes to rely on targets while still leveraging Cloud-to-Cloud when forming links and bundles.

Korean language support

Cyclone REGISTER 360 is now available in Korean.

Option to auto-register across SiteMaps during import

In the settings menu there is now an option to enable the registration of all SiteMaps within the import area into one bundle. By default, this setting is off. Thus, each SiteMap will form its own bundle. If the user enables this option, Cyclone REGISTER 360 will try to form one bundle spanning all the SiteMaps.

Note: Links cannot be manually created by the user between SiteMaps in the import area.

Option to have each Setup/Bundle be a different color

There is a new option under Cloud Color to view bundles or Setups by color. This will color each Setup or bundle a different color to allow users to visually distinguish them from one another and pre-QA a project before detailed manipulation of the cloud.
Preference to join but not optimize newly created links

This new option disables the automatic optimization that occurs every time there is a change in the link(s) in a registration. In large registrations, optimizing after every link change can take time, preventing users from conducting productive work during that time. If unchecked, Cyclone REGISTER 360 will now only optimize when the user clicks the Optimize button to return valuable time to the users’ workflow.

“Add Project Thumbnail” button added to the Import area

In the import area there is now a button in the top tool bar to enable the quick creation of a thumbnail of the project in the project explorer, facilitating the creation of thumbnails for easy project identification in the project explorer.

Can delete inside and outside of fence on a bundle

Users can now edit the entire bundle with the fence selection tool in Bundle Cloud view allowing quick editing of point clouds in a bundle rather than editing each cloud separately, increasing the efficiency of the cloud cleaning process.

Added support for multi-selecting setups to restore deleted points

Setups can now be multi-selected to restore deleted points within the project explorer panel on the left of the program. There is also a choice to restore either the Visual cloud and or the Cloud-to-Cloud cloud.
TruSlicer Enhancements

Features have been added to the TruSlicer tool which provide users with additional QA/QC abilities as well as increase the users’ efficiency when working in the tool.

- Slice in X, Y or Z direction.
  - There are now additional directions for slicing in TruSlicer. Enter TruSlicer and the selected the slice direction:

- Pick Slice Center.
  - Use this command to center the Slice Location slider on the pick point. Adjusting the slider range reposition the center of the slice by picking on the point cloud. This will center the slider so the user has a greater range of slice adjustment.

- User can launch Visual Alignment from highlighted setups in TruSlicer.
  - Use the Pick Setups button to select two setups to find their names and or send to Visual Alignment allowing the user to quickly move from visual QA in TruSlicer to correcting misalignments in Visual Alignment.

User-friendly License checking
License checking has been modified so Cyclone REGISTER 360 will now check for a Cyclone JetStream PUBLISHER license before publishing to JetStream to prevent a user from waiting for a JSV or LGS file to publish only to find that their license is invalid or improperly located.

Cyclone REGISTER 360 will also now accept any iteration of a TruView Cloud server URL.

**Simplified Language Switching**
Cyclone REGISTER 360 now allows the user to use the command line to set the desired language.

**Abort Publishing Improvement**
Users may now choose to cancel publication to JetStream Enterprise, allowing the user to modify their publishing selection.

**Change to Publisher License Control**
Cyclone JetStream PUBLISHER licenses are now checked by Cyclone or Cyclone REGISTER 360 upon attempt to publish rather than by JetStream Enterprise upon attempt to import.

- PLEASE NOTE!!! Users should relocate their Cyclone JetStream PUBLISHER licenses to the same CLM as Cyclone in the case Cyclone and JetStream Enterprise are licensed by separate installations of Leica CLM.
- This also applies to Cyclone PUBLISHER Pro for publishing to JetStream Enterprise as well as legacy JetStream Generator licenses
- This requires the user also be running the latest JetStream Enterprise 1.5 and Cyclone REGISTER 360 1.5 and/or Cyclone 9.3

**Miscellaneous Improvements**
- General improvements for clarity of action and error messages.
- Manual extraction of targets has been enhanced for more consistent and faster results.
- SiteMap rendering has been improved for better visual clarity when working with BLK360 data.
- Archive (.raf) folder location set by user is now permanently preserved.

**Bug Fixes**

**UX Bugs**
- Cyclone REGISTER 360 will now warn the user when closing a project if there is unimported data in Import area to prevent data loss.
- Bug fixed where user could not access Report tab after deleting a Master SiteMap due to the Accept button being disabled.
- Bug fixed where user could advance to the Finalize Tab even when Optimization failed.
- New storage is now immediately available upon creation.
- UCS’ now persist along with the associated setups when they are moved to other SiteMaps.
- Project names may now contain quote marks (‘ or ”) and retain usability in TruView Enterprise or Cloud.
• Bug fixed where a Cyclone REGISTER 360 project was deleted upon exiting the program if the temp folder set to same location as the project folder.
• Stability of visualization when animations are enabled has been improved.
• Bug fixed where it was difficult to pick points for target centers when the pano image was on.
• Improved stability of manual target creation.
• Improved stability of target matching.
• Bug fixed where the user had to lock then unlock a link in order to disable the Cloud-to-Cloud option.
• Fixed bug where points remain selected in split view after finishing the update link operation.
• Improved visualization of initial view of C10 data post-import.
• Improved robustness of Master SiteMap support throughout product.
• Fixed bug where suggested links were added despite canceling action.
• Improved robustness of AutoAlign post-import.
• Fixed bug in Cyclone REGISTER 360 and BLK360 Data Manager where sorting by setup name or time did not successfully sort data.
• Improved support for non-ASCII characters throughout product including deliverable naming, SiteMap naming and publishing to TruView.
• Improved robustness of SmartAlign import option.
• Fixed bug where tone map editor stays open after closing Cyclone REGISTER 360.
• Fixed bug where deleted projects are still visible in the Project Selection dialog.
• Fixed bug where applied control was not fully eliminated upon deletion, preventing the user from deleting a setup.
• Fixed bug where space bar only cleared some pick points in split view rather than all.
• Default UCS name is now incremented when multiple UCSs are created.
• Improved support for 3 pick registration with tilted BLK360 scans.
• Improved robustness of spherical target re-fit.
• Fixed bug where Pan/Rotate could be activated while in Visual Alignment.
• Fixed bug where calling a link to split view via right click in the menu caused instability.
• Tone map editor now immediately reflects changes when point cloud and pano are both enabled.
• Fixed bug where hitting the space bar while an import is in progress, cancels the import operation.
• Project can now be re-named from projects & storage while open.
• Fixed bug where setups in a separate SiteMap remained visible despite being unlinked to anything in the selected SiteMap.
• improved stability of geo image bar and fencing.
• Improved alignment of internal and external Pano Images to setup positions.
• Fixed a bug where when dragging a single setup, all setups moved as a group even though they were not fence selected.

**Import Bugs**

• Improved support for tilted data leveling.
• Improved support for batch import of images.
• Registration settings now remain exposed after import to allow the user to verify the settings used.
• improved support for re-import of published projects.
• E57 datasets pre-registered in Recap are now fully supported by Cyclone REGISTER 360.
Improved stability of BLK360 import.

Fixed bug where RAF project names containing dash character (-) was replaced by an underscore (_).

Import of PTG scans now supported via a PTG index file.

Multi-threaded import of PTX datasets now imported.

**Publishing Bugs**

- Master SiteMap and SiteMap hyperlinks are now properly published to TruView Enterprise and Cloud.
- Stability of publishing has been improved such that publishing the same deliverable twice to the same JetStream Server will succeed.
- Users may now publish to TruView Cloud if their password contains special characters ($, !, etc.)
- Improved robustness of publishing of datasets containing batch imported images.
- Bug fixed where prompt for file location not shown for each file type when multiple files selected for export.
- Fixed bugs related to publishing including incorrect persisting of project location and name resulting in unintentional overwriting.
- Fixed bug where applied control coordinates did not persist in deliverable cloud preview, TruView Cloud, direct TruView Cloud upload or TVG creation.

**Workflow for importing RTC360 laser scanner data into Cyclone REGISTER 360**

**Import RTC360 data**

RTC360 data can be imported by dragging the folder that includes the `project.rtc360` file and the Job folder to the Import area, or using the Browse File command. However, data from the RTC360 and Cyclone FIELD 360 activate new auto-registration options, multimedia, metadata, and geo-location information.

**Geolocations of RTC360 Setups**

Users may choose to activate GPS information for all data captured with the RTC360. The location of globally positioned setups can be read by Cyclone REGISTER 360 and automatically displayed on the built-in Satellite or street map imagery used for SiteMap creation.

To take advantage of the RTC360’s on-board GPS information within Cyclone REGISTER 360 follow the below steps:

1. Click “Show Geo Image” in the Action Bar, after importing the RTC360 data.
   - If the Setups have GPS location information, the satellite imagery will automatically zoom to the Project area for easy SiteMap creation and placement of additional scans.
2. Cyclone REGISTER 360 will attempt a best fit of the satellite image based on available data. The user may adjust the zoom level and area extent manually before selecting a view to use as a SiteMap.

3. Select either the “Street Map” or “Satellite” background image options for use as a SiteMap.

4. Click “Get Image”
5. Click “Place by Geo Coordinates” to display the setups on the image

The geolocation and setup position information from the RTC360 scanner makes it easier for the user to modify bundles, combine jobs, and perform SmartAlign.

**Automatic registration from RTC360**

Cyclone REGISTER 360 processes the RTC360 setup positions and Cyclone FIELD 360 pre-registrations for smart and automated registration.

**Importing RTC360 Projects without Cyclone FIELD 360**

Cyclone REGISTER 360 processes the setup position information from RTC360 to create links that are later used for auto-registration. This is similar to the pre-registration process that takes place in Cyclone FIELD 360, which is detailed below.

1. Upon adding RTC360 data to Cyclone REGISTER 360, setup positions and assumed links are automatically created in a tentative form as yellow dotted lines.
2. The setup positions are then validated for quality.
3. After validation, the VIS Links are changed to “trusted” links, which appear as solid red lines, in Cyclone REGISTER 360 and are prepared for importing.
4. After importing the data, the links are shown.
Importing Cyclone FIELD 360 pre-registered projects

Cyclone REGISTER 360 can also accept data that has been pre-registered in Cyclone FIELD 360. Rather
than validating links in Cyclone REGISTER 360, as outlined above, the user will have already validated
links in the field, allowing them to import data with links pre-defined.

1. Upon import of RTC360 data, any verified Cyclone FIELD 360 links are included
2. The existing links are re-validated and re-optimized and prepared for import.
3. The links are optimized in a bundle(s).
Importing RTC360 projects with both Cyclone FIELD 360 pre-registered links and unvalidated VIS links

It is possible to have a project with a combination of Cyclone FIELD 360 pre-registered links and unvalidated VIS links (assumed links derived from setup position information). For each type of Link, VIS or Cyclone FIELD 360, they are accordingly processed to generate the validated links.

SmartAlign

As mentioned in the “Registration Options” section in the internal Help in Cyclone REGISTER 360, SmartAlign is a feature that can shorten the time required for Auto Alignment by creating pre-defined links based on time or distance before importing the data
SmartAlign can be generated based on time and distance together

**Modifying Jobs/Bundles**

**Deleting links**

It is possible for the users to accidentally create bad or unwanted links in Cyclone FIELD 360. Cyclone REGISTER 360 can delete those link during the data import if the user didn’t remove them via Cyclone FIELD 360.

1. Select a link.
2. Click on “Delete Link”, which appears only after a link is selected.

**Combining Jobs**

The user may also combine multiple RTC360 jobs within a Cyclone REGISTER 360 project. To add another job to an existing project, follow the steps outlined below:
1. Open an existing project containing the first job.
2. Add the second job via drag-and-drop or browsing to the data.
3. Select the second bundle from the Import bar and drag the bundle on to the SiteMap.

4. To move a bundle, select one of the scans in the bundle with the left mouse button and drag. To rotate a bundle, select one of the scans in the bundle and hold the SHIFT key while pressing the left mouse button then drag clockwise or counterclockwise to adjust the rotation of the entire
Importing Tags and Assets from Cyclone FIELD 360

Tags and Assets from Cyclone FIELD 360 are imported to the dataset along with the scan data. Tags and Assets are published as GeoTags to JetStream Enterprise or as part of an LGS file for use downstream in TruView, JetStream Viewer and CloudWorx products to enable smarter data access.
Double Scan Cleaning
Cyclone REGISTER 360 automatically compares two scans taken by the RTC360 when the “double scan” option is enabled and filters out points that are not common to both scans prior to import. Double scan cleaning reduces noise to improve the accuracy of a project during import and saves the user time during cleaning.

HDR Panoramic Images
Cyclone REGISTER 360 takes full advantage of the RTC360’s camera array for unparalleled image fidelity and use downstream in TruView, JetStream and CloudWorx products.

Users can adjust the exposure of HDR images with a slider bar within Cyclone REGISTER 360.

HDR point clouds
If a project’s full dataset is from an RTC360 laser scanner, the point cloud will show HDR color, allowing the user to adjust the brightness of the point cloud with a slider in the main view area in Bundle View.

Licensing
Customers with Cyclone REGISTER 360 1.4.3, or older, who do not have active CCP will require additional licensing to upgrade to 1.5.0. Users with Active CCP may upgrade to 1.5.0.
Customers with Cyclone 9.2 accessing Cyclone REGISTER 360 via their CCP must have current CCP or CCP valid as of 30th of June 2018 to run Cyclone REGISTER 360 1.5.0.

**Leica Cyclone REGISTER 360 1.5.0 Compatibility and Upgrades**

**Compatibility**

Cyclone REGISTER 360 requires corresponding releases of Cyclone, JetStream Enterprise, JetStream Viewer, and TruView for features to function correctly:

<table>
<thead>
<tr>
<th>Import Cyclone REGISTER 360 Projects (BASIC, REGISTER, MODEL, or SURVEY)</th>
<th>Cyclone 9.2 or higher</th>
<th>JetStream Enterprise</th>
<th>JetStream Viewer</th>
<th>TruView</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consume published HDR panorama images published as JSV or JetStream Enterprise projects</td>
<td>1.4.1 or higher</td>
<td>1.4.1 or higher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Publish to JetStream Enterprise</td>
<td>1.4 or higher</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>View Multi SiteMap hyperlinks</td>
<td></td>
<td>3.0 or higher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>View projects containing layers</td>
<td></td>
<td>3.6 or higher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consume LGS</td>
<td></td>
<td>1.5 or higher</td>
<td>3.6 or higher</td>
<td></td>
</tr>
</tbody>
</table>

**Known Issues**

- 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 Center 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 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.
- After editing the tone map image, the project needs to be re-opened to see the edited image.
- 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.
- After the first publish event in the Report area there is a known issue that prevents another publish event. The workaround is to re-start Cyclone REGISTER 360 or click the cancel button in the Report area and then directly re-enter the Report area.
- Some graphic card anomalies can be caused by power management software. Please turn off by setting the power management profile to High performance.

**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