



General Support Instructions

This document provides a guideline for efficiently contacting the *RIEGL* USA Support Team.

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Date	October 9, 2024
Issue	01
Pages	12

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1 POINT OF CONTACT

If you have any questions regarding the functionality, performance, or operation of your *RIEGL* product or if you encounter any problems related to your *RIEGL* product, please contact our support team via e-mail at:

support@rieglusa.com

1.1 ADDITIONAL CONTACT INFORMATION

Office phone number:

(407) 248-9927

Office address:

14707 West Colonial Drive
Winter Garden, FL 34787

Hours of operation:

Monday – Friday
8:00 AM – 5:00 PM (EST)

Technical support is also provided after hours for any emergencies. Below is the pertinent contact information:

RIEGL USA support e-mail:

support@rieglusa.com

After hours phone number:

(321) 474-2518

Hours of operation:

Monday – Friday 5:00 PM – 8:00 PM (EST)
Saturday – Sunday 9:00 AM – 8:00 PM (EST)

1.2 GENERAL INFORMATION

Please **always** provide the following information:

1. Scanner type
2. Serial number of the *RIEGL* scanner
3. Detailed description of the problem
4. Full name
5. Complete name of your company
6. Information whether additional data, if any, has already been uploaded

2 HARDWARE PROBLEMS

In addition to [General Information](#), please provide the following information if the issue is hardware related.

2.1 RIEGL STATIC (TLS) SCANNERS (V-LINE)

- Detailed description of the problem:
 - Exact wording & screenshot of the error message
- Description of any troubleshooting steps taken
- Example dataset clearly showing the reported problem (If applicable)
- Exact timestamp (Date/time) when the reported behavior happened
- Details on whether it is a recurring problem or if it is a problem that occurred only once

Additionally, please provide the LOG files of the instrument, depending on the type as listed below

VZ-i Series

Please run wizard CW_VZ-xxxi_Hxxxxxxx_error_analyze and provide the result file:
<https://nextcloud.riegl.com/index.php/s/7zxnZ2FYjdtCdKx>

VZ-Series

Please run wizard CW_V-Line_Sxxxxxxx_error_analyze and provide the result file:
<https://nextcloud.riegl.com/index.php/s/7zxnZ2FYjdtCdKx>

2.2 RIEGL KINEMATIC SCANNERS (V-LINE) FOR ALS, MLS, ULS APPLICATIONS

- Detailed description of the problem:
 - Exact wording & screenshot of the error message
- Example dataset clearly showing the reported problem (if applicable)
- Exact timestamp (Date/time) when the reported behavior happened
- Details on whether it is a recurring problem or if it is a problem that occurred only once
- Information on system setup
 - Has anything been changed recently in the system setup/maintenance/vehicle?
- Are there any nonstandard system components installed?

2.2.1 OPERATED WITH RIACQUIRE

Generating a Compressed Project:

The compressed project can be created without the need of the system. As only project related data is collected, neither Integration Settings nor a RiACQUIRE license are required for this step. It is not mandatory to use the acquisition computer for creating a compressed project.

Please

- **Start RiACQUIRE** and
- go to '**Help**' >> '**Compress Projects...**'
- A new window will pop up.
- Press the '+' icon and navigate to the projects root directory and choose the **.rpp file**.
- Note: You can add multiple projects if required.

Output

- At '**Output File**' select the output file location and
- output option '**Essential**' to provide only the essential project log files (this is preferred in most troubleshooting cases).

Options

- Check the box to '**Add existing problem reports**' only if RiACQUIRE has crashed.

Generating a System Documentation:

- To create the System Documentation, the entire system must be accessible for RiACQUIRE.
- Please **start the system** as usual and create new or **open** an existing **project**.
- **Initialize the system** and wait until **all components are fully initialized**.
- Then go to '**Help**' >> '**System documentation**' >> '**Generate system documentation**'.
- A new window will open. Choose the file path and the name with the button next to '**File name**' field, **ensure the extension .zip is specified in the file name**.
- Note: all devices should always be initialized; if a device cannot be initialized, then the "**Skip devices not in initialized state**" box should be checked.
- Click '**Start**' to begin generating the system documentation. It takes about 5-10 minutes to collect all data.

For a scanner of the **RIEGL LMS-Q Series**:

Please run wizard LMS-QZXXX_ErrorMemory and provide the result file:

<https://nextcloud.riegl.com/index.php/s/7zxnZ2FYjdtCdKx>

Camera Log Files:

for LMS-Q1560, VQ-1560i, and VQ-1560 II (-S) (from Internal PC of Camera iXController)

- Start the system on ground power, and **do not** initialize the system in RiACQUIRE
- Please open the **windows file explorer** and enter the following address:
<\\192.168.0.78>
- It may ask you for a login, it is '**als**' (without the apostrophes) for **user** and **password**.
- You should see a folder named '**log**', in this folder is a collection of log files.
- Please copy the entire contents of the folder to your computer.
- Use your favorite tool (e.g. 7-zip) to compress all files before providing.

for VMX / VMQ / VMY system running on Linux operating system (from Internal PC)

- Please open **folder Home** (shortcut on the desktop or via Kubuntu Start menu home\mls)
- You should see a folder named '**log**', in this folder is a collection of log files.
- Locate the files that match the date you experienced the reported issue and the date of the last time there was not an issue.
- Please copy the entire contents of the folder to your computer.
- If the logs are not already compressed, please use your favorite tool (e.g. 7-zip) to compress all files before providing.

for VMX / VMQ / VMY system running on Windows operating system (from Internal PC)

- Start the system, and **do not** initialize the system in RiACQUIRE
- Please open the **windows file explorer** and enter the following address:
<\\192.168.0.78>
- It may ask you for a login, it is '**mls**' (without the apostrophes) for **user** and **password**.
- You should see a folder named '**log**', in this folder is a collection of log files.
- Locate the files that match the date you experienced the reported issue and the date of the last time there was not an issue.
- Please copy the entire contents of the folder to your computer.
- If the logs are not already compressed, please use your favorite tool (e.g. 7-zip) to compress all files before providing.

for VMQ / VMY system operated with an external acquisition PC

- Start the system, and **do not** initialize the system in RiACQUIRE
- Please open the **windows file explorer** and navigate to `C:\Users\[user name]\Riegl_LMS`
- Locate the files that match the date you experienced the reported issue and the date of the last time there was not an issue.
- If the logs are not already compressed, please use your favorite tool (e.g. 7-zip) to compress all files before providing.

2.2.2 OPERATED WITH CUSTOMER OWN SOFTWARE

- Detailed description of the problem:
 - Exact wording & screenshot of the error message
- Example dataset clearly showing the reported problem (if applicable)
- Exact timestamp (Date/time) when the reported behavior happened
- Details on whether it is a recurring problem or if it is a problem that occurred only once
- Information on system setup
- Has anything been changed recently in the system setup?
- Are there any nonstandard system components installed?
- If available: Logfile containing sent/received message to/from scanner.

Additional please provide the LOG files of the instrument, depending on the instrument type as listed below:

Scanners of the RIEGL V-Line Series

Please run wizard CW_V-Line_Sxxxxxxx_error_analyze and provide the result file:

<https://nextcloud.riegl.com/index.php/s/7zxnZ2FYjdtCdKx>

Ensure that the correct scanner IP is entered and that standard port 22 is used

Scanner of the RIEGL LMS-Q Series

Please run wizard LMS-QZXXX_ErrorMemory and provide the result file:

<https://nextcloud.riegl.com/index.php/s/7zxnZ2FYjdtCdKx>

2.3 REMOTE CONNECTION

In exceptional cases, we may ask for direct access to the system via a remote connection. If this occurs, please provide the following POC information:

Name of Contact Person

E-mail address

Phone Number

Please ensure you have access to a stable, reliable, and moderately fast Internet connection.

Our preferred and recommended method of remote connection is through TeamViewer or QuickSupport Tool (Section 2.3.3). For TeamViewer sessions, please provide your ID and password to your support team member shortly before your discussed meeting time.

2.3.1 REQUIRED EQUIPMENT

The Support Team will inform you about the system components needed (Scanner, IMU, Camera,...), and the required system setup (network connections, *RIEGL* Debug Cable,...). These components are mandatory for the remote connection.

As certain steps cannot be executed remotely, it is necessary that a person familiar with the system is present during the entire remote session and can react to the instructions of the support team.

Ensure that there is a sufficient power supply for the system components needed during the whole remote session (minimum one hour).

Please note: Only the original *RIEGL* Debug-Cables can be used, as these have a special pin-out required to access the scanner. Standard USB to micro-USB cables cannot be used as a replacement for the *RIEGL* USB Debug-Cables.

2.3.2 CONNECTING YOUR SYSTEM TO THE INTERNET

Please connect the acquisition computer to your system as usual and power up the system. Please make sure to NOT change the static IP settings of the acquisition computer to maintain the current system setup for testing.

For establishing the internet connection, please use another network interface, for example Wi-Fi, UMTS/LTE connection, etc.

2.3.3 RIEGL QUICKSUPPORT TOOL

The easiest way to provide access to your system is using the *RIEGL* QuickSupport tool. Check if the *RIEGL_QS* tool is already installed on your controlling computer, otherwise please download and install the Riegl_QS tool from our members area.

(<http://www.riegl.com/members-area/software-downloads/tools/> - registration required!) or

<https://nextcloud.riegl.com/index.php/s/BYXTWkpzijHN7nF/download>

Please start the *RIEGL_QS* tool for hosting the remote session. After a short time, you should see your **remote ID**. Please provide this ID to the member of the Support team that is assisting you

As for any follow-up communication of an on-going support ticket, please make sure to include the unique Case number (RIEGL USA Case #) in the subject field of e- mail.

3 SOFTWARE PROBLEMS

In addition to [General Information](#), please provide the following information if the issue is software related.

3.1 RIEGL TLS SOFTWARE PACKAGES (RISCAN PRO/RISOLVE/RIMINING)

- Licensing information
- Used software packages and versions
- Example dataset clearly showing the reported problem (if applicable)
- Any troubleshooting steps taken so far
- Detailed description of the used workflow and the issue currently faced with
- Whether the issue can be reproduced or occurred only once
- Used program settings / dialog settings (preferably provide screenshots of the used settings)

Please provide additional LOG files for the used *RIEGL* software packages as listed below

- Support.zip
Please start the software, open the project where you have the reported problem, and go to 'Help' -> 'Create Support.zip'. The software will open the storage destination of the Support.zip which can be sent to *RIEGL* USA.

- **Automatic Registration 2 Log**
In case of problems during this process, you can find these in the TEMP folder of your project. Please send the full AR2 folder corresponding to the AR2 run where the problem occurred.
- **Multi Station Adjustment 2 Log**
In case of problems during this process, you can find these in the TEMP folder of your project. Please send the full MSA2 folder corresponding to the AR2 run where the problem occurred.

Scanner Raw Data

In case you are asked to provide data, please provide a small example project. This can either be a small *.RiSCAN project containing a set of Scan Positions or a RAW project (*.PROJ or *.riproject) directly from the scanner. Please also include any relevant supplemental files such as control files, GeoSys Manager files(.gsfx), geoid models, etc. .

3.2 RIEGL KINEMATIC (ALS / MLS / ULS) SOFTWARE PACKAGES (RIPROCESS, RIUNITE, RIWORLD, SDC IMPORT, RIANALYZE)

- Licensing information
- Used software packages and versions
- Example dataset clearly showing the reported problem (if applicable)
- Any troubleshooting steps taken so far
- Detailed description of the used workflow and the issue currently faced with
- Whether the issue can be reproduced or occurred only once
- Used program settings / dialog settings (preferably provide screenshots of the used settings)
- Support.zip
 - To collect this file, please start the software, open the project where you have the reported problem, and go to '?' -> 'Send Support Request'. The software will open the storage destination of the Support.zip which can be sent to RIEGL.

3.2.1 RIEGL INTEGRATED SYSTEM

(Systems of the 1560-, VMX-, VMQ-, VMY-, VMZ- and VUX-SYS Series, complete platforms integrated by RIEGL)

Scanner Raw Data

In case you are asked to provide data, please provide a small example data set include the following:

- raw data of the scanner (*.RXP) (LMS-Q series *.SDF, please compress!)
- post-processed trajectory file (*.POF, *.POQ, *.POFX, *.POQX)
- RiPROCESS project file (*.RPP)
- in case of an issue with the data export: GeoSysManager database (*.GSFX + all referenced *.GSB *.GDF) ,
- if used: atmospheric condition file (*.ACL), ...

Trajectory Raw Data

- trajectory raw data (*.RAW) (VMX.###) (ALS.###) (VUX-SYS.###) (*.T04) (*.MON.IGS)
- GNSS antenna lever arm information
- base station raw data (RINEX observation file: *.##O)
- base station documentation [base station coordinates + CRS information (EPSG code)]

3.2.2 CUSTOMER-OWN SYSTEM INTEGRATIONS

Scanner Raw Data and Trajectory Data

- raw data of the scanner (*.RXP) (LMS-Q series *.SDF, please compress!)
- post-processed trajectory file (*.POF, *.POQ, *.POFX, *.POQX)
- RiPROCESS project file (*.RPP)
- system information
 - RiPROCESS project file (*.RPP) or
 - Scanner Mounting Matrix (*.4X4) and Scanner Calibration information (*.CAL)
- or
- technical drawing of the system setup showing the offsets between the IMU's center of computation and the SOCS

4 DATA UPLOAD

If you have already received user credentials for an FTP-support account before, please use this account. Otherwise, please contact support@rieglusa.com for an upload location.

Please always clearly label all data with the case number and the serial number of the scanner.

Inform the *RIEGL USA* support team when the upload is complete.

5 RETURNING INSTRUMENTS FOR REPAIR / SERVICE

To send a device to *RIEGL USA* for service / repair you need an RMA (Return Materials Authorization) document. Please contact support@rieglusa.com before sending the device to receive this document and all necessary shipment information.

If the purpose of returning the scanner is a general maintenance service, please contact *RIEGL USA* in a timely manner to ensure that a service appointment is available within the desired time frame.

If you have already received an RMA for the return of your device and the return of the device must be postponed or you decide that the device will not be returned to *RIEGL USA*, please inform *RIEGL USA* immediately.