RayQC

Release Notes
RayQC 2.1

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Introduction

Confirming with the commitment of delivering innovative solutions to the software packaging industry, Raynet introduces RayQC *Advanced*. RayQC *Advanced* is an extension module of Raynet's quality control tool i.e. RayQC. This extension is meant to provide packagers with the ability to execute automatic collision and conformity tests on software packages, merge modules, legacy setups and OS snapshots. Additionally, a package can also be verified for virtualization against standard visualization technologies.

With this solution a user can execute tests on a package or a set of packages; which can either be located on a disk or maintained in the built-in package catalog library. Backed by a SQL Server database, this library maintains imported packages and their historical test results.

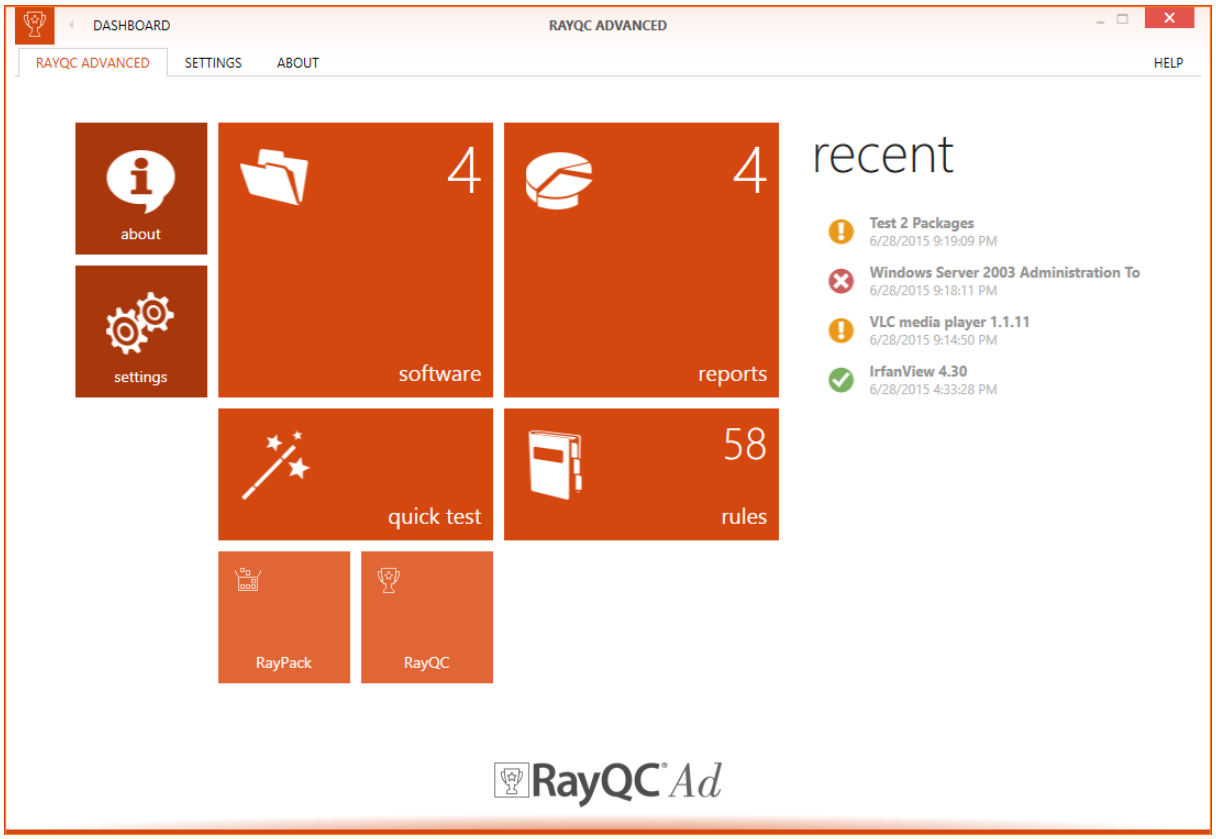
Extensibility in terms of defining custom test rules, simple user interface and support for diverse test scenarios are some of the key identifying features of this solution.

New Features

RayQC 2.1 comes with an *Advanced* extension module. This chapter of the document summarize the features and functionlities offered by this module.

Intuitive Interface Design

The application shell adheres to Raynet 3.0 design guidelines.



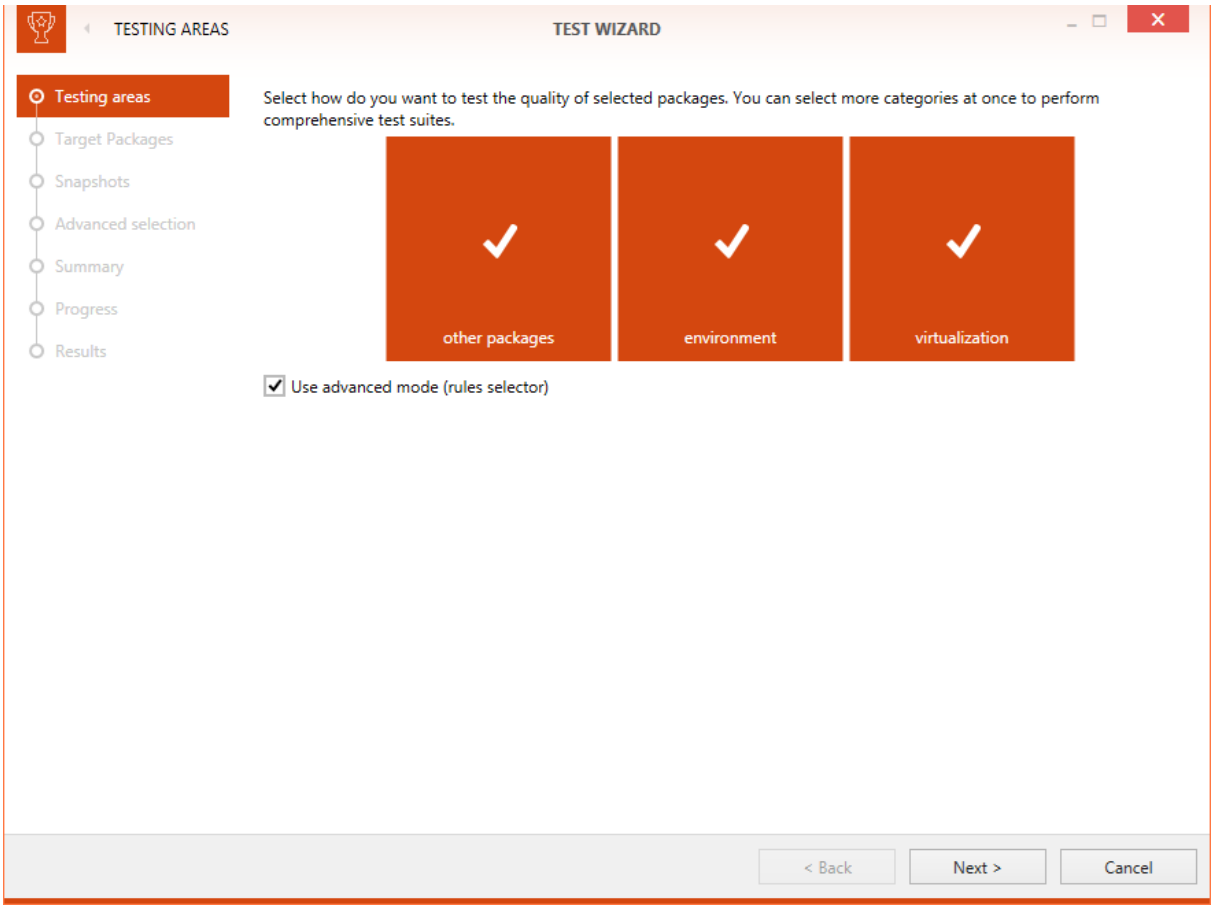
The idea behind RayQC *Advanced* user interface is to provide a clean and state-of-the-art canvas that does not only support basic quality check for a package, but actually makes it easier to solve issues with the help of clearly guided procedures and structured views. RayQC *Advanced* users do not have to search for features, they just use them.

Unified MSI installer

RayQC and its "*Advanced*" extension module is now available through a single MSI installer. During installation, this installer allows a user to select components (RayQC and RayQC Advanced) which will be installed on the target machine. Additionally, post installation features available to users are controlled by the license file.

Supported Test Types

Supported by pre-defined set of rules, a user has an ability to execute collision, conformity and virtualization tests, either on a single package or a set of packages. These tests can be executed either individually or in a mixed mode.



These test types can briefly be described as:

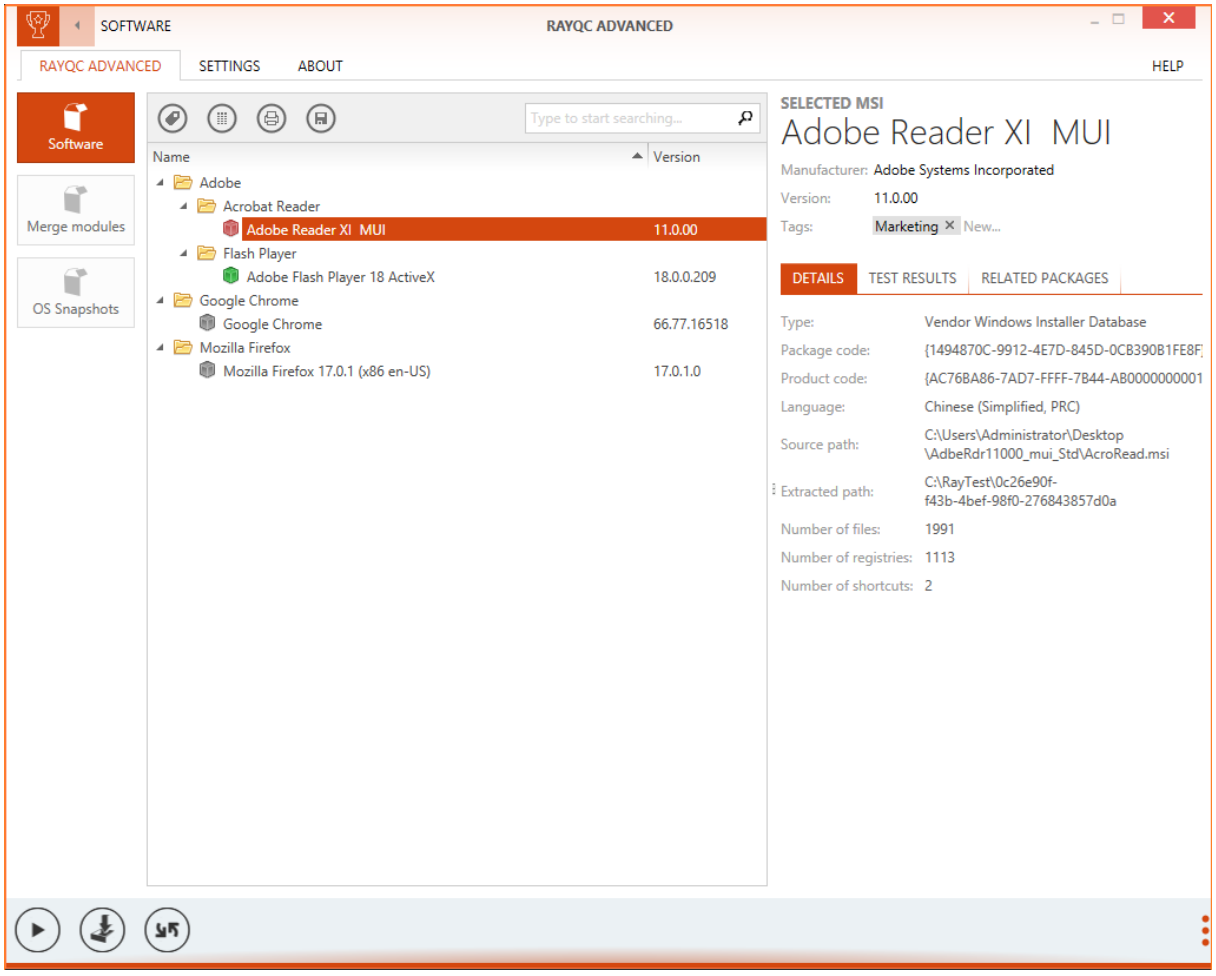
- Collision Test(**other packages**): Collision test is carried out to identify common conflicts between different applications, which hinder achieving required level of application isolation. This test can be executed between:
  - MSI (or EXE) and MSI (or EXE)
  - MSI (or EXE) and MSM (Merge Module file)
  - MSI and OS Snapshot
- Virtualization Test: Verifies application readiness for virtualization
- OS Conformity Test (**environment**): Tests a package for deployment on a selected operating system

Application Management

Backed by Microsoft SQL Server database, RayQC *Advanced* allow its users to maintain catalog of packages in its Software library. This library primarily categorizes a package in three categories i.e. Software, Merge modules and OS Snapshots. Using user defined folders; these packages can be further arranged in a more hierarchical cum structural manner.

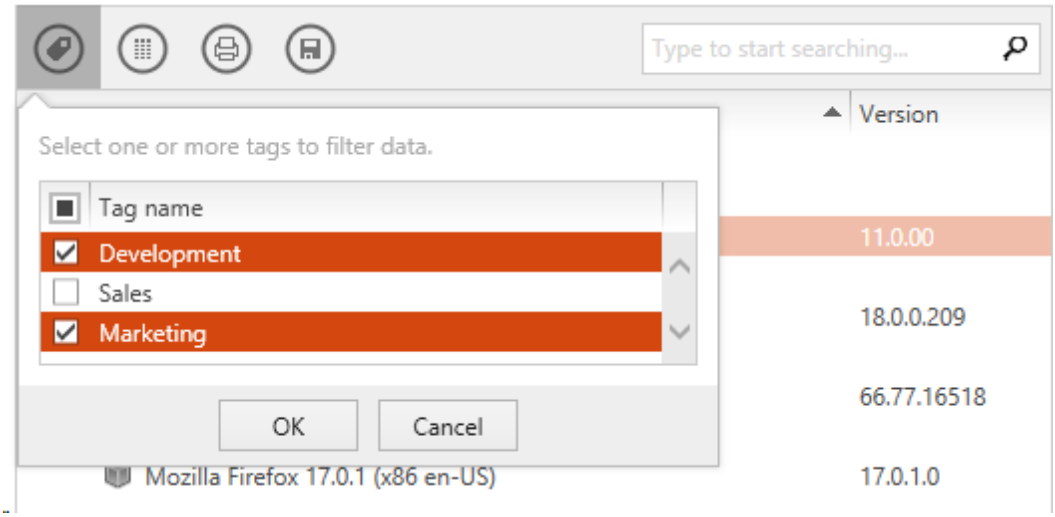
When a package is selected from the library, details and historical test results pertaining to that package is shown in the right side-bar. Use of different color code in user interface makes software library self-explanatory and visually intuitive.

Launching the test wizard directly from the library, access to reports and historical results, package management options are some of the key features of RayQC *Advanced* Software library.



Package Tagging

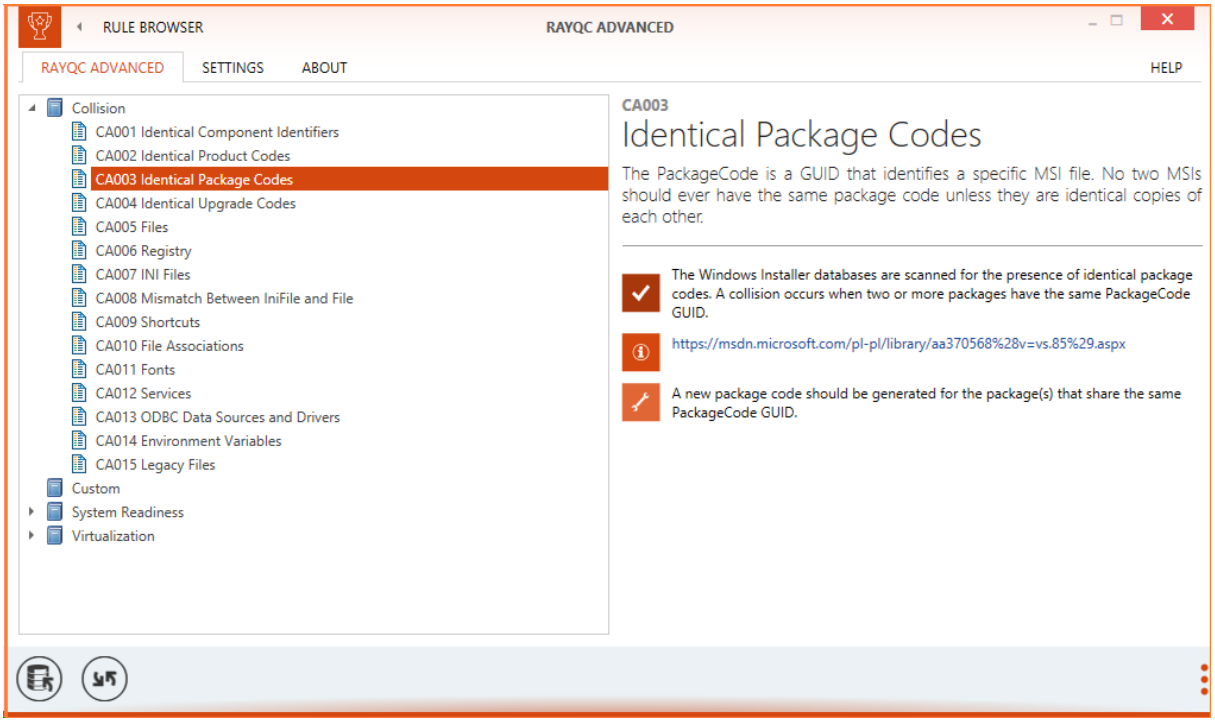
Apart from having an ability to arrange packages within user-defined folders, RayQC *Advanced* allow its users to label packages using Tags. Based upon the usage criteria defined by a user,these tags can be used to achieve second-level grouping of packages. Additionally, these tags can be used to filter packages within the Software catalog and the Test Wizard.



Test Management

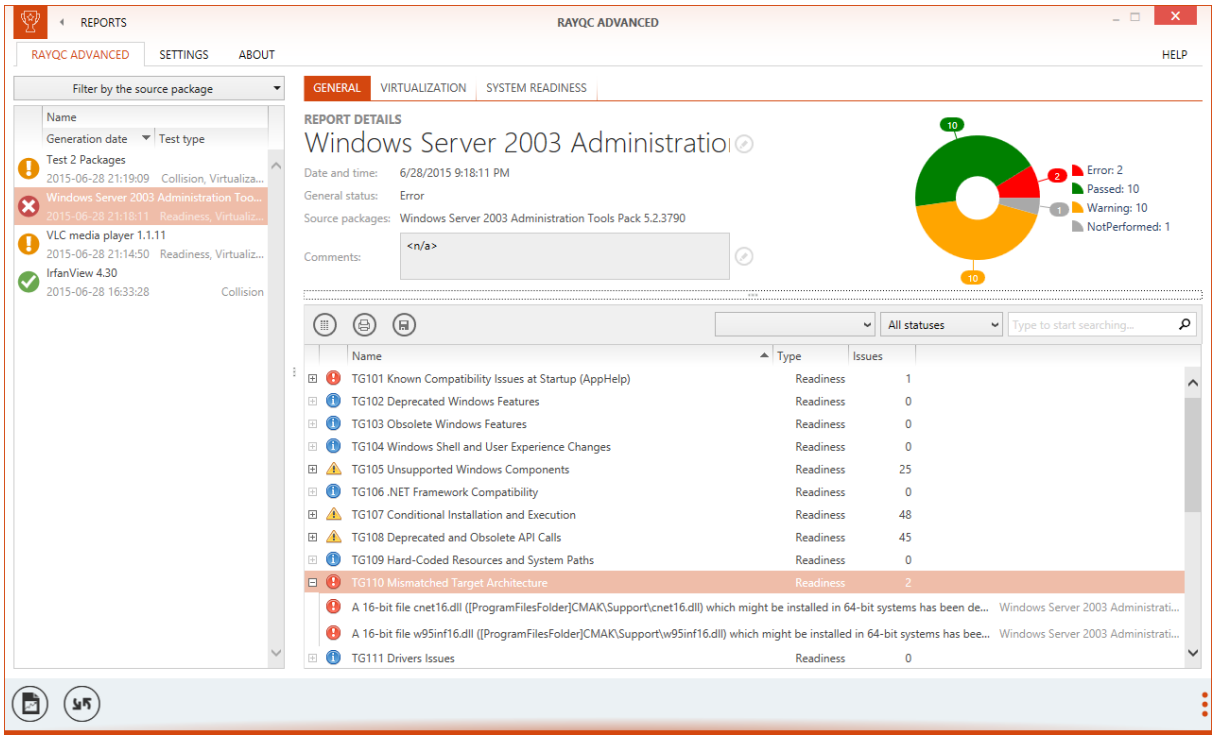
RayQC *Advanced* maintains an internal set of rules to be used as test criteria on packages. These rules are catalogued inside the Rule Browser view. Primarily, all the rules are categorized under three categories i.e. Collision Tests, System Readiness and Virtualization Tests. Additionally, a user can define their own custom test, comprising of rules belonging primary test types.

Just like Software library, the Rule Browser also allows a user to use folders to arrange their custom tests. Furthermore, the right side-bar of the browser provides information relating to a selected rule.



Interactive Report Viewer

Report Viewer in RayQC *Ad.* takes information pertaining to the executed tests and presents in an easy-to-read, highly interactive format for users. To intuitively present the results, this viewer uses a combination of visual signs, color coding, raw data and pie chart. Additionally, a user is provided with options to further sort and filter their results. Also, result related to different packages can be exported in various supported formats including .pdf, .docx and others.



Testing in Standalone Mode

To execute a test, a user does not necessarily need to store a software package in the *Software* library. This means, using the quick test option (available on the dashboard) a user can specify a package from disk, execute tests and directly export the result various supported formats. This option becomes more relevant when working in offline mode i.e. without an active connection to the SQL database.

RayQC *Advanced* as part of RaySuite

The *Advanced* module is part of RaySuite and is available as an extension to RayQC 2.1. When installed on the same machine as RayPack, a user can directly execute quality check from RayPack by navigating to File -> QUALITY menu. Results from the tests are directly shown within the RayPack validation results, thus allowing fixing of any issues before the package is actually tested against rules for collision conformity and virtualization test.

RayQC *Advanced* tests are available as plug-in in RayQC. A user can use these test plugin within a checkpoint and export the post execution result in supported formats.

Command Line Interface

RayQC *Advaned* comes with a standardized command line interface for automation and scripting requirements. Using this interface a user can execute following actions in silent mode. Furthermore, this interface allows this module to be integrated with RayFlow 2.0, with an ability to upload post-test results back to the RayFlow database.

Known Issues

The following list is a summary of known issues present in RayQC 2.1.

- RTS-808 - Next button on license activation page (installation wizard) is disabled, in case a focus is lost on the text box (e.g. Order number)
- RTS-754 - Importing identical snapshots does not give warning message (as it is in case of Windows Installer packages)
- RTS-737 - Layout may get messed up while working with a specific combination of .NET Framework and graphic drivers
- RTS-565 - Truncated text when printing grid state with longer descriptions

System Requirements

The given requirements name prerequisites for devices running the RayQC 2.1 application.

Hardware Requirements

Minimal

- CPU Pentium IV / Core2 processor
- 2 GB RAM
- 1 GB free hard disk
- 1280x1024 screen resolution

Recommended

- CPU Intel Core i5 or i7
- 8GB RAM
- 40 GB free hard disk (software library usage)
- 1680x1050 screen resolution

Supported OS

- Windows 8.1 x64
- Windows 8
- Windows 8 x64
- Windows 7
- Windows 7 x64
- Windows Vista
- Windows Vista x64
- Windows XP Professional SP3
- Windows Server 2012 R2
- Windows Server 2012
- Windows Server 2008 R2
- Windows Server 2008
- Windows Server 2003 SP1 x64

Prerequisite Software

- .Net 4.0 Full (32bit or 64bit)
- Microsoft SQL Server 2008 and higher

Additional Information

Once RayQC 2.1is installed on a machine, there are additional documents available from the applications root directory:

- The **User Guide** contains the full set of product documentation for in-depth reference and assistance on advanced use cases.
- The **Operations Supplement** document is a bundle of license information regarding all third party libraries incorporated into RayQC 2.1 and its extension module.

Visit www.rayqc.de for further information regarding the product and current community incentives.

Raynet is looking forward to receiving your feedback from your RayQC 2.1 experience. Please contact your Raynet service partner or write an e-mail to support@raynet.de to add your ideas or requirements to the RayQC 2.1 development roadmap!

Need Help?

Request Raynet Support

Our Raynet support team gladly assists you on any question or issue you encounter regarding RayQC 2.1. Feel free to sign in and open incidents via our Raynet support panel, or by simply sending an email to support@raynet.de if you are an already registered Raynet customer.

Contact your Raynet Sales Representative

Our sales team is the right contact for any license or edition question you might encounter. You would like to benefit from a professional RayQC 2.1 training? Ask for dates and locations to find the fitting training occasion. You are highly welcome to step in contact via sales@raynet.de.

RayQC®

Software Packaging Quality Control

RayQC is part of the RaySuite®.

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