•ray*NET*

**New:** RayQC *Advanced*
The Solution for Collision and
Compatibility Management

# RayQC®

## Quality Control for
## Software Packaging

RayQC is part of RaySuite.

# RayQC®

## Quality Control for Software Packaging

## Top Benefits

### Reduce IT and helpdesk costs
- RayQC increases the quality of your software deployments through multi-level and standardized test plans by relieving the manual testing tasks of your workforce

### Improve end-user experience and productivity
- New editor to easily create and edit checklists for a high level of auto-mation
- Drag & drop of checklist elements
- Tips given during the editing greatly simplify the creation of checklists
- With the new resource management, checklists are stored together with all necessary documents and graphics in one single file
- Create and manage user-defined report profiles

### Best Practices meet customization
- Our Best Practices Templates deliver a solid basis, which can be easily and quickly amended to suit your company-specific requirements
- Our open plug-in interface allows the integration of our existing scripts in checklists

### The quality control
of a product does not only start after its production, but accompanies all phases of the product lifecycle management. Quality control is an underlying factor during the entire lifecycle of the product, from the planning phase through its actual production and implementation, all the way until its end-of-life.

This is highly relevant when it comes to Enterprise Application Lifecycle Management. Errors or conflicts in software applications and their packages can have serious conse-quences on the receiving clients, as they often lead to the failure of business-critical applications and thereby create high costs as well as long term image damage in IT departments and their enterprises.

### Intelligent test rules and quality control processes
that ensure a high level of automation in repetitive tasks are needed to avoid these issu-es and provide a constant high level of quality.

### Standardization, Automation and Flexibility
Error-free software packaging is fundamental for Raynet. After years of experience and numerous successful IT projects, we have perfected the art of software packaging quality control with the product RayQC. RayQC is a rule-based tool used to create and execute test criteria in one or more checklists.

It offers various modules to check the quality of applications and software packages throughout the Application Lifecycle Management process and also allows you to inte-grate your own test criteria. The execution of the various test phases is typically done via a combination of manual (i.e. are there available and sufficient licenses for the applica-tion?) and automated tasks (i.e. are the MSI properties set according to the packaging guidelines?).

In addition to the ,easy to use' Checklist Viewer, it is the rule-based interpretation of the test results which brings the quality assurance offered by RayQC to an entirely different level. For instance, the RayQC predefined interpretation rules can make it possible so that the overall quality control phase will not fail, even when one or more test criteria are set to „not achieved".

All the control steps are also summarized in a final quality report which is then handed over to the next packaging process phase. Therefore, RayQC meets the requirements for a software packaging quality control tool.

## RayFlow®
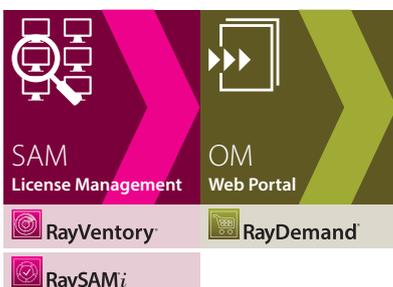
| SAM | OM |
|---|---|
| License Management | Web Portal |
| RayVentory | RayDemand |
| RaySAM i | |

| EVAL | PKG | QA |
|---|---|---|
| Evaluation | Packaging | Quality Assurance |
| RayEval | RayPack | RayQC |
| | RayQCAd | |

| DEP | MDM |
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| Software Deployment | Mobile Management |
| RayManageSoft i | RayMobile |

Enterprise Application Lifecycle Management
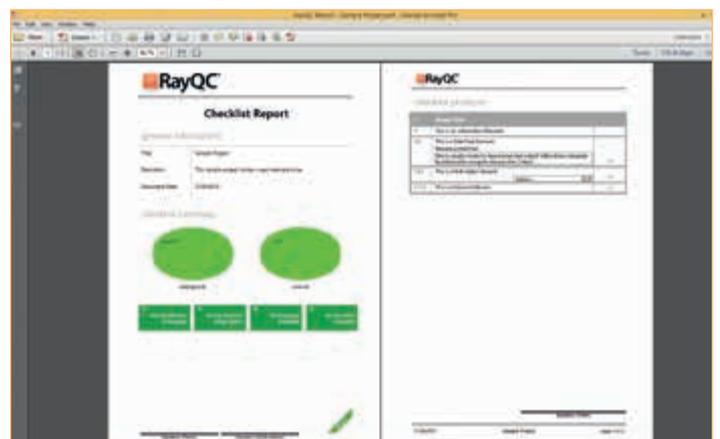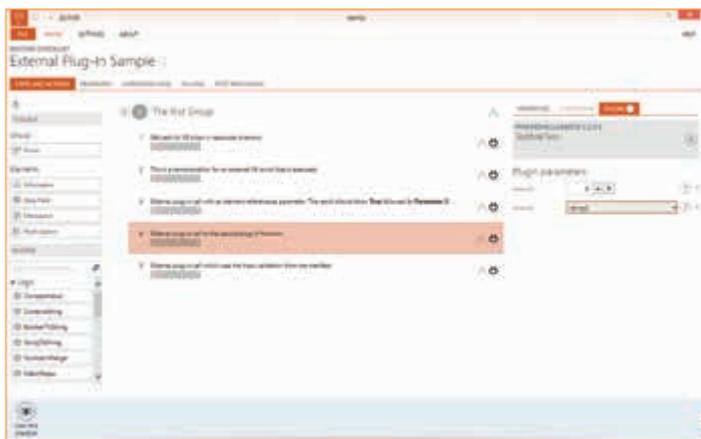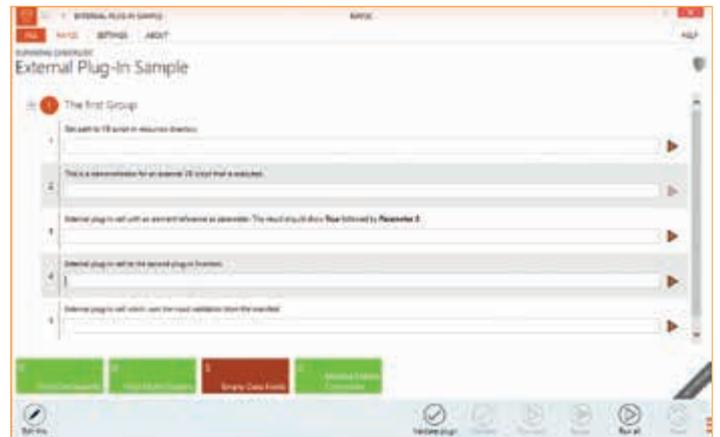
With RayQC from Raynet, you will immediately see a reduction in errors, and in the long-term, secure the quality of business processes, which in turn will drastically alleviate the excess burden put on IT and Helpdesk alike.

## Standardization

- Create and manage user-defined report profiles
- Maximum security against manipulation your checklists via certificates
- With the new resource management, checklists are stored together with all necessary documents and graphics in one single file
- External Plug-ins can now be implemented using PowerShell and allow full access to all system resources and information
- Easy creation of XML-based checklists with the Checklist Editor
- Create your own test criteria for each individual quality control phase in the software packaging lifecycle
- Define how to proceed with each test result. Does a "failed" test lead to a rejected package? Or does the tester simply need to document the reason for failure to move onto the next test phase?

- Documentation and export of the test results in the Quality Report
- Export of the test results (in .docx & html)

## Automation

- Automate part of the test routines („Runbook") through the integration of your own or Raynet's developed automated test scripts
- Start tests directly from RayFlow and integrate the overall process management with RayFlow
- The option of uploading the quality reports into RayFlow

## Take Advantage of our Experience

Extend your RayQC solution with one of our modules and take advantage of our experience:

- Application Compatibility Checking Services

## Get Ready for Windows 10!

The brand new RayQC Advanced is an extension module of RayQC. This extension provides the ability to the Packaging Team to execute automatic collision and compatibility tests. The tests allow to determine whether a software package is fit for usage within a specific environment, along with other applications, and in virtualized operation modes.

## Requirements

When it comes to migration to Windows 10, companies are faced with the uncertainty whether their applications are compatible with the new target platform. They usually have difficulties to foresee potential disturbing factors. This does not only lead to unexpected delays, but costs a lot of precious time and money as well.

# Core Tasks

With RayQC Advanced Raynet offers a solution to test the readiness of applications with respect to various target environments, e.g. OS systems or system snapshots ("Golden Image"). Testing software with regards to its general suitability for virtualization, combination and/or compatibility is also supported. For this purpose, RayQC Advanced provides standardized testing methods for reliable results according to best practice.

## Three Rule-Based Testing Procedures at a Glance

1. **OS & Environment Compatibility:**
   Is it safe to deploy a software application to a target system?
   A broad range of operating systems is supported: Windows 7, 8, 8.1, 10, Server 2008 R2, 2012, 2012 R2. Beyond these static operating systems it is also possible to test for suitability in the context of system snapshot defined environments.

2. **Software Harmonization:**
   Is it possible to run software applications parallel on one device?

3. **Virtualization:**
   Are there general issues that prevent virtual operation modes for software packages?
   RayQC Advanced does not analyze with regard to a specific target format (such as App-V, ThinApp, etc.), but investigates universal criteria of virtualized usage.

## Application Target

The intention of RayQC Advanced is to identify potential confounders right at the beginning of the software packaging and deployment process, and to guarantee the result quality of OS migration or software virtualization projects. RayQC Advanced considers software applications involving specifications of individual IT environments.
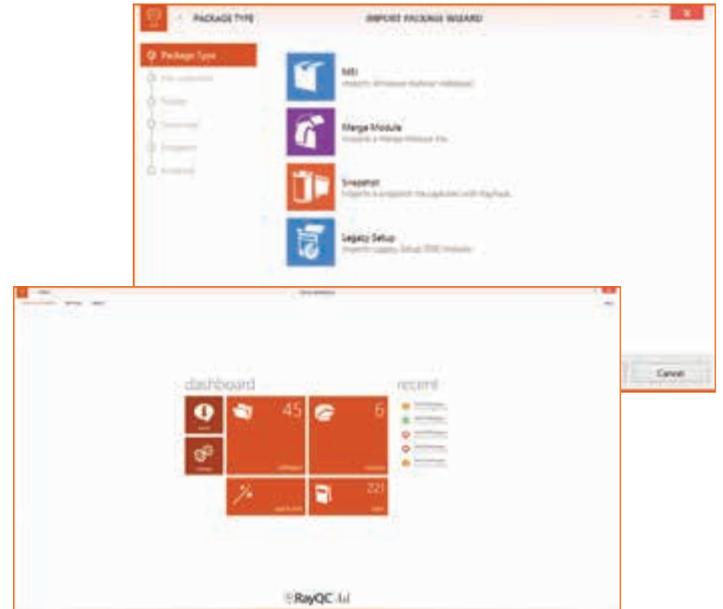
## Plug-in based Integration of Validation Rules

Flexible expandability in terms of individual sets of test rules is a corner post of the RayQC architecture. Individual validation rules can easily be integrated via the plug-in interface. Users are able to compile their own rule sets from existing rules in order to perform specific tests. The relevant checkpoints per test procedure are clearly structured and visible at any time.

## Reports

The test results are communicated by means of comprehensive reports, which are broken down not only by test procedure/s, but also provide detailed information per test point. The reports can be exported into various file formats, such as PDF, DOC(X) HTML and XPS.

- Advanced and interactive presentation of results is provided as well as options for filtering, re-testing etc.

- A full history of all test results is available and can also be seen retrospectively, whilst the latest result per package is directly visible.

- During testing, it is possible to determine whether the results should be logged to the catalogue, which allows to perform quick tests without affecting the actual library database.

## Advanced Fine-Tuning of the Package Library

- Test of packages and troubleshooting either from within software library or directly from the hard drive. Combining both procedures is also possible (e.g. testing several MSI packages from hard drive against other local packages or against the software library)

- Group your applications into a functional folder structure. Apply additional levels of filtering and assign a tag to each package. Tags can be used not only to filter the library, but also to perform tests on whole families of similarly tagged products, allowing to easily define standard combinations for different departments, packaging projects, functional methods etc.

- Applications already tested against each other can be grouped in package families so that no further collision errors should be reported back. This is an easy way to define related packages that should never get installed at the same time. This again saves time and produces more reliable and relevant results.

## Full Integration into RaySuite

With the full RaySuite integration, users have the possibility to start tests directly from within RayPack.

The results of the quality tests are directly shown within the RayPack validation results, allowing to fix issues before the package is actually tested thoroughly in later quality assurance phases of the overall packaging process. With the help of RayPack, non-MSI based packages ("legacy setups") can be converted and imported into the library.



Reports
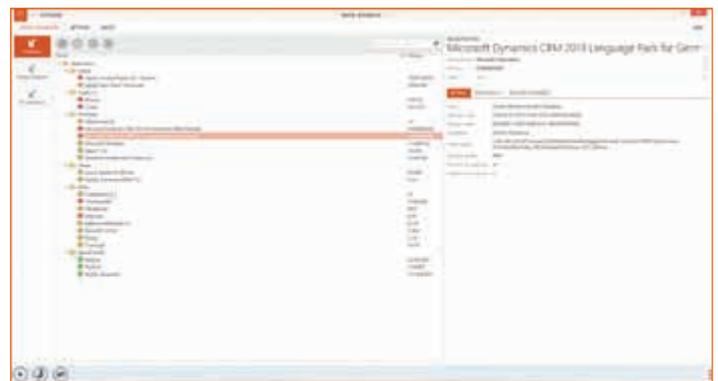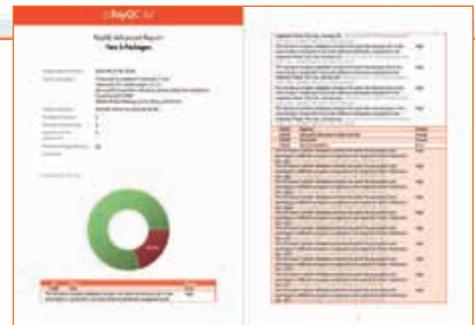


Advanced Fine-Tuning

With RayFlow users will always be able to see the entire process and to check the current position of a package order – RayFlow will carry the relevant data from phase to phase within the process, which also includes data exchange with tools such as RayQC Advanced. Reports from RayQC Advanced can be exported directly into the workflow tool RayFlow.

As with any other product included in RaySuite, Raynet puts massive emphasis on providing a simple and user-friendly interface for RayQC Advanced, which facilitates work tremendously.

## About Raynet

Raynet GmbH is a leading and innovative service and solution provider in information technology and specialized in the architecture, implementation and operation of all tasks within "Application Lifecycle Management". Raynet's Headquarters is in Germany and presently has additional locations throughout Germany, the USA, Poland, UK and the Netherlands .

For over 15 years, Raynet has supported hundreds of customers and partners with its products and solutions for enterprise application management projects worldwide. These include license management, software packaging, software deployment, migrations, client engineering and much more. Additionally, Raynet maintains and cultivates strong partnerships with leading companies in Application Lifecycle Management.

Raynet products and solutions are unique in design and functionality. Their development is highly driven by our customers and partners who play a big role in the development of our products and are a key reason why our products are always cutting edge. Whether you want to introduce a new deployment tool or to start a SAM project, whether you want to plan a packaging factory or do a migration – Raynet is the choice for best-of-breed-practices in services, products, and solutions for Application Lifecycle Management.

**Next Steps**
For more information, please visit our website: www.raynet.de or contact our sales team on +49 5251 54009-0 or sales@raynet.de

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