Installation Qualification for rpact

RPACT

Januar 14, 2025

Introduction

This report presents the results of the Installation Qualification (IQ) testing for the rpact package, conducted using the testPackage() function. The IQ process is essential for verifying that rpact is installed correctly and operates as intended in your target environment, ensuring compliance with GxP regulatory requirements. The tests performed are designed to validate the functionality and reliability of the package, providing confidence for its use in regulated settings.

System Information and Environment Details for Qualification

- **Date of creation**: Januar 14, 2025, 12:08:09
- **Creator**: rpact function *testPackage()*
- **rpact package version**: 4.1.1.9276
- **rpact package release date**: Januar 14, 2025
- **System user**: *fried*
- **System ID**: 247281fd1a4ce40a6a0c50e2664e6715

R Version

- **Version**:R version 4.4.2 (2024-10-31 ucrt)
- **Platform**:x86_64-w64-mingw32
- **Running under**:Windows 11 x64 (build 26100)

Matrix Products

- **default**

Locale

- LC_COLLATE = German_Germany.utf8
- LC_CTYPE = German_Germany.utf8
- LC_MONETARY = German_Germany.utf8
- LC_NUMERIC = C
- LC_TIME = German_Germany.utf8

Time Zone

- **Time Zone**: Europe/Berlin
- **TZCode Source**: internal

Attached Base Packages

- stats
- graphics
- grDevices
- utils
- datasets
- methods
- base

Other Attached Packages

- rpact: 4.1.1.9276
- testthat: 3.2.1.1

Loaded via a Namespace (and not attached)

- compiler: 4.4.2
- magrittr: 2.0.3
- R6: 2.5.1
- cli: 3.6.3
- tools: 4.4.2
- withr: 3.0.2
- rappdirs: 0.3.3
- Rcpp: 1.0.13-1
- desc: 1.4.3
- knitr: 1.49
- xfun: 0.50
- brio: 1.1.5
- lifecycle: 1.0.4
- rlang: 1.1.4
- evaluate: 1.0.1

R Basic Package Test Results

Running Strict Specific Tests

- running code in 'eval-etc.R'
- comparing 'eval-etc.Rout' to 'eval-etc.Rout.save' . . . OK
- running code in 'simple-true.R'
- comparing 'simple-true.Rout' to 'simple-true.Rout.save' . . . OK
- running code in 'arith-true.R'
- comparing 'arith-true.Rout' to 'arith-true.Rout.save' . . . OK
- running code in 'lm-tests.R'
- comparing 'lm-tests.Rout' to 'lm-tests.Rout.save' . . . OK
- running code in 'ok-errors.R'
- comparing 'ok-errors.Rout' to 'ok-errors.Rout.save' . . . OK
- running code in 'method-dispatch.R'
- comparing 'method-dispatch.Rout' to 'method-dispatch.Rout.save' . . . OK
- running code in 'array-subset.R'
- running code in 'p-r-random-tests.R'
- comparing 'p-r-random-tests.Rout' to 'p-r-random-tests.Rout.save' . . . OK
- running code in 'd-p-q-r-tst-2.R'
- running code in 'any-all.R'
- comparing 'any-all.Rout' to 'any-all.Rout.save' . . . OK

- running code in 'structure.R'
- comparing 'structure.Rout' to 'structure.Rout.save' ... OK
- running code in 'd-p-q-r-tests.R'
- comparing 'd-p-q-r-tests.Rout' to 'd-p-q-r-tests.Rout.save' ... OK

Running Sloppy Specific Tests

- running code in 'complex.R'
- comparing 'complex.Rout' to 'complex.Rout.save' ... OK
- running code in 'print-tests.R'
- comparing 'print-tests.Rout' to 'print-tests.Rout.save' ... OK
- running code in 'lapack.R'
- comparing 'lapack.Rout' to 'lapack.Rout.save' ... OK
- running code in 'datasets.R'
- comparing 'datasets.Rout' to 'datasets.Rout.save' ... OK
- running code in 'datetime.R'
- comparing 'datetime.Rout' to 'datetime.Rout.save' ... OK
- running code in 'iec60559.R'
- comparing 'iec60559.Rout' to 'iec60559.Rout.save' ... OK

Running Regression Tests

- running code in 'reg-tests-1a.R'
- running code in 'reg-tests-1b.R'
- running code in 'reg-tests-1c.R'
- running code in 'reg-tests-2.R'
- comparing 'reg-tests-2.Rout' to 'reg-tests-2.Rout.save' ... OK
- running code in 'reg-tests-1d.R'
- running code in 'reg-tests-1e.R'
- running code in 'reg-examples1.R'
- running code in 'reg-examples2.R'
- running code in 'reg-packages.R'
- running code in 'reg-S4-examples.R'
- running code in 'classes-methods.R'
- running code in 'datetime3.R'
- running code in 'p-qbeta-strict-tst.R'
- running code in 'reg-IO.R'
- comparing 'reg-IO.Rout' to 'reg-IO.Rout.save' ... OK
- running code in 'reg-IO2.R'
- comparing 'reg-IO2.Rout' to 'reg-IO2.Rout.save' ... OK
- running code in 'reg-plot.R'
- comparing 'reg-plot.pdf' to 'reg-plot.pdf.save' ... OK
- running code in 'reg-S4.R'
- comparing 'reg-S4.Rout' to 'reg-S4.Rout.save' ... OK
- running code in 'reg-BLAS.R'
- running code in 'reg-translation.R'
- running code in 'reg-tests-3.R'
- comparing 'reg-tests-3.Rout' to 'reg-tests-3.Rout.save' ... OK
- running code in 'reg-examples3.R'
- comparing 'reg-examples3.Rout' to 'reg-examples3.Rout.save' ... OK

Running Tests of Plotting Latin-1

- expect failure or some differences if not in a Latin or UTF-8 locale
- running code in 'reg-plot-latin1.R'

- comparing 'reg-plot-latin1.pdf' to 'reg-plot-latin1.pdf.save' ... OK

Test Results

1 pkgname

1.1 Run just one basic rpact test

1: **OK**, 2: **OK**, 3: **OK**

1.2 rpact unit test information

4: **OK**

Summary

The test ended at 12:09:09 on Januar 14, 2025.

A total of 4 tests were executed during the Installation Qualification:

- **4 tests passed successfully.**
- **0 tests failed.**
- **0 tests passed with warnings.**
- **0 tests were skipped.**

Only a subset of the 37398 available rpact unit tests were executed. You need to successfully complete all tests to confirm that rpact is correctly installed and functioning properly in your environment. This means the package is not yet validated for use in GxP-compliant settings. Please read the vignette Installation Qualification of rpact to learn how to qualify rpact for reliable statistical planning, simulation, and analyses in regulated areas.

References

- Wassmer G, Pahlke F (2025). *rpact: Confirmatory Adaptive Clinical Trial Design and Analysis.* R package version 4.1.1.9276, https://www.rpact.com, https://github.com/rpact-com/rpact, https://rpact-com.github.io/rpact/, https://www.rpact.org.
- rpact test coverage: app.codecov.io/gh/rpact-com/rpact

This report was generated automatically by the rpact function *testPackage()*

For further assistance or questions regarding this report, please contact the RPACT support team at support@rpact.com.