

# Package: rapbase (via r-universe)

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**Type** Package

**Title** Base Functions and Resources for Rapporteket

**Version** 1.24.3

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**Description** Provide common functions and resources for registry specific R-packages at Rapporteket  
<[https://rapporteket.github.io/rapporteket/articles/short\\_introduction.html](https://rapporteket.github.io/rapporteket/articles/short_introduction.html)>.  
This package is relevant for developers of packages/registries at Rapporteket.

**License** GPL-3

**Encoding** UTF-8

**LazyData** true

**Depends** R (>= 3.5.0)

**Imports** blob, bookdown, DBI, digest, dplyr, DT, jsonlite, kableExtra, knitr, magrittr, readr, rlang, RMariaDB, rmarkdown, rpivotTable, sendmailR, shiny, shinyalert, sship (>= 0.9.0), utils, yaml

**RoxygenNote** 7.2.3

**URL** <https://github.com/Rapporteket/rapbase>

**BugReports** <https://github.com/Rapporteket/rapbase/issues>

**Suggests** httpptest, lifecycle, rvest, testthat, withr

**VignetteBuilder** knitr

**Repository** <https://areedv.r-universe.dev>

**RemoteUrl** <https://github.com/rapporteket/rapbase>

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---

.getFun *Provide explicit reference to function for do.call*

---

**Description**

Provide explicit reference to function for do.call

**Usage**

.getFun(x)

**Arguments**

x string with explicit reference, i.e. 'package::function'

**Value**

value of the exported 'function' in 'package'

---

.testAutoReport *Simple test of automated report*

---

**Description**

Simple test of automated reporting from definitions provided in a yaml config file

**Usage**

.testAutoReport(aNum = 1, aChar = "a", anExp = Sys.Date(), bulletin = 0)

**Arguments**

aNum a number  
aChar a character  
anExp an expression  
bulletin Integer defining if report is of type bulletin (1) or not (0). Set to 0 by default

**Value**

A simple message listing the contents of the arguments

**Examples**

.testAutoReport()

appLog

*App log test dataset.*

---

**Description**

A dataset containing test entries for the application log.

**Usage**

appLog

**Format**

A data frame with 20 rows and 7 variables:

**time** character timestamp

**user** user name

**name** user full name

**group** users group/registry

**role** users role

**resh\_id** users organization

**message** log message

---

appNavbarUserWidget*Create widget for registry apps at Rapporteket*

---

**Description**

Provides a widget-like information and utility block to be applied to all registry apps at Rapporteket. Contains the user name, organization and logout/exit as hyperlinked text.

**Usage**

```
appNavbarUserWidget(  
  user = "Undefined person",  
  organization = "Undefined organization",  
  addUserInfo = FALSE,  
  selectOrganization = FALSE,  
  namespace = NULL  
)
```

**Arguments**

user	String providing the name of the user
organization	String providing the organization of the user
addUserInfo	Logical defining whether a user data pop-up is to be part of the widget (TRUE) or not (FALSE, default)
selectOrganization	Logical if organization can be selected.
namespace	Character string providing the namespace to use, if any. Defaults is NULL in which case no namespace will be applied.

**Details**

Normally, user information will be provided through the session parameter and hence this will have to be provided from the server. The "rendering" of this info must hence be done within a layout element at the client such as a `tabPanel`. Selecting any one of them should be fine... At the client, both `uiOutput` and `textOutput` will be fine "rendering the information provided by the server."

Example of use in shiny (pseudo code):

```
server <- function(input, output, session) {
  ...
  output$appUserName <- renderText(getUserName(session))
  output$appUserOrg <- renderText(getUserReshId(session))
  ...
}

ui <- tagList(
  navbarPage(
    ...,
    tabPanel(...,
      appNavbarUserWidget(user = uiOutput(appUserName),
        organization = textOutput(appUserOrg))
    ),
    ...
  )
)
```

**Value**

Ready made html script

**Examples**

```
appNavbarUserWidget()
```

---

`autoReport`*Shiny modules and helper functions for registry auto reports*

---

**Description**

These shiny modules may be used to set up auto reporting from registries at Rapporteket.

**Usage**

```
autoReportUI(id)

autoReportOrgInput(id)

autoReportOrgServer(id, orgs)

autoReportFormatInput(id)

autoReportFormatServer(id)

autoReportInput(id)

autoReportServer(
  id,
  registryName,
  type,
  org = NULL,
  paramNames = shiny::reactiveVal(c("")),
  paramValues = shiny::reactiveVal(c("")),
  reports = NULL,
  orgs = NULL,
  eligible = TRUE,
  freq = "month"
)

autoReportServer2(
  id,
  registryName,
  type,
  org = NULL,
  paramNames = shiny::reactiveVal(c("")),
  paramValues = shiny::reactiveVal(c("")),
  reports = NULL,
  orgs = NULL,
  eligible = TRUE,
  freq = "month",
  user
)
```

```

autoReportApp(
  registryName = "rapbase",
  type = "subscription",
  reports = NULL,
  paramNames = shiny::reactive(c("")),
  orgs = NULL
)

orgList2df(orgs)

```

### Arguments

id	Character string providing the shiny module id.
orgs	Named list of organizations (names) and ids (values). When set to NULL (default) the ids found in auto report data will be used in the table listing existing auto reports.
registryName	Character string with the registry name key. Must correspond to the registry R package name.
type	Character string defining the type of auto reports. Must be one of c("subscription", "dispatchment", "bulletin")
org	Shiny reactive or NULL (default) defining the organization (id) of the data source used for dispatchments and bulletins (in which case it cannot be set to NULL) and its value will be used to populate the <i>organization</i> field in auto report data (autoReport.yml) for these auto report types. On the other hand, since subscriptions are personal (per user) the only relevant organization id will implicit be that of the user and in this case any value of org will be disregarded.
paramNames	Shiny reactive value as a vector of parameter names of which values are to be set interactively at application run time. Each element of this vector must match exactly those of paramValues. Default value is shiny::reactiveVal("").
paramValues	Shiny reactive value as a vector of those parameter values to be set interactively, <i>i.e.</i> as per user input in the application. Default value is set to shiny::reactiveVal("") in which case parameter values defined in reports will be used as is. In other words, explicit use of paramValues will only be needed if parameter values must be changed during application run time. If so, each element of this vector must correspond exactly to those of paramNames.
reports	List of a given structure that provides meta data for the reports that are made available as automated reports. See Details for further description.
eligible	Logical defining if the module should be allowed to work at full capacity. This might be useful when access to module products should be restricted. Default is TRUE, <i>i.e.</i> no restrictions.
freq	Character string defining default frequency set in the auto report GUI. Must be one of c("day", "week", "month", "quarter", "year"). Default value is "month".
user	List of shiny reactive values providing user metadata and privileges corresponding to the return value of <a href="#">navbarWidgetServer</a> .

## Details

The *reports* argument must be a list where each entry represents one report and its name will be used in the auto report user interface for selecting reports, *e.g.* `reports = list(MagicReport = ...)` will produce the entry "MagicReport" in the GUI list of reports to select from. The value of each entry must be another list with the following names and values:

**synopsis** character string describing the report

**fun** report function base name (without "()")

**paramNames** character vector naming all arguments of *fun*

**paramValues** vector with values corresponding to *paramNames*

These named values will be used to run reports none-interactively on a given schedule and must therefore represent existing and exported functions from the registry R package. For subscriptions the *reports* list can be used as is, more specifically that the values provided in *paramValues* can go unchanged. It is likely that parameter values must be set dynamically at runtime in which case *paramValues* must be a reactive part of the application. See Examples on how function arguments may be used as reactives in an application.

## Value

In general, shiny objects. In particular, `autoreportOrgServer` returns a list with names "name" and "value" with corresponding reactive values for the selected organization name and id. This may be used when parameter values of auto report functions needs to be altered at application run time. `orgList2df` returns a data frame with columns "name" and "id".

## Examples

```
## make a list for report metadata
reports <- list(
  FirstReport = list(
    synopsis = "First example report",
    fun = "fun1",
    paramNames = c("organization", "topic", "outputFormat"),
    paramValues = c(111111, "work", "html")
  ),
  SecondReport = list(
    synopsis = "Second example report",
    fun = "fun2",
    paramNames = c("organization", "topic", "outputFormat"),
    paramValues = c(111111, "leisure", "pdf")
  )
)

## make a list of organization names and numbers
orgs <- list(
  OrgOne = 111111,
  OrgTwo = 222222
)

## client user interface function
```



```

ui <- shiny::fluidPage(
  shiny::sidebarLayout(
    shiny::sidebarPanel(
      autoReportFormatInput("test"),
      autoReportOrgInput("test"),
      autoReportInput("test")
    ),
    shiny::mainPanel(
      autoReportUI("test")
    )
  )
)

## server function
server <- function(input, output, session) {
  org <- autoReportOrgServer("test", orgs)
  format <- autoReportFormatServer("test")

  # set reactive parameters overriding those in the reports list
  paramNames <- shiny::reactive(c("organization", "outputFormat"))
  paramValues <- shiny::reactive(c(org$value(), format()))

  autoReportServer(
    id = "test", registryName = "rapbase", type = "dispatchment",
    org = org$value, paramNames = paramNames, paramValues = paramValues,
    reports = reports, orgs = orgs, eligible = TRUE
  )
}

# run the shiny app in an interactive environment
if (interactive()) {
  shiny::shinyApp(ui, server)
}

```

---

createAutoReport

*Create and add report to config*


---

## Description

Adds an entry to the system configuration of reports to run at given intervals. After generating the configuration from the new entry the function load the current system configuration, adds the new entry and saves the updated system configuration.

## Usage

```

createAutoReport(
  synopsis,
  package,
  type = "subscription",
  fun,

```

```

    paramNames,
    paramValues,
    owner,
    ownerName = "",
    email,
    organization,
    runDayOfYear,
    startDate = as.character(Sys.Date()),
    terminateDate = NULL,
    interval = "",
    intervalName = "",
    dryRun = FALSE
)

```

### Arguments

synopsis	String with description of the report and to be used in subject field of email distributed reports
package	String with package name also corresponding to registry
type	Character string defining type of auto report. Currently, one of 'subscription' (default) or 'dispatchment'
fun	String providing name of function to be called for generating report
paramNames	String vector where each element corresponds to the input parameter to be used in the above function
paramValues	String vector with corresponding values to paramNames
owner	String providing the owner of the report. Usually a user name
ownerName	String providing full name of owner. Defaults to an empty string to maintain backwards compatibility
email	String with email address to recipient of email containing the report
organization	String identifying the organization the owner belongs to
runDayOfYear	Integer vector with day numbers of the year when the report is to be run
startDate	Date-class date when report will be run first time. Default value is set to Sys.Date() + 1 <i>i.e.</i> tomorrow.
terminateDate	Date-class date after which report is no longer run. Default value set to NULL in which case the function will provide an expiry date adding 3 years to the current date if in a PRODUCTION context and 1 month if not
interval	String defining a time interval as defined in <a href="#">seq.POSIXt</a> . Default value is an empty string
intervalName	String providing a human understandable representation of interval. Default value is an empty string
dryRun	Logical defining if global auto report config actually is to be updated. If set to TRUE the actual config (all of it) will be returned by the function. FALSE by default

**Value**

Nothing unless dryRun is set TRUE in which case a list of all config will be returned

**See Also**

[deleteAutoReport](#)

---

deleteAutoReport	<i>Delete existing report from config</i>
------------------	---

---

**Description**

Delete existing report from config

**Usage**

```
deleteAutoReport(autoReportId)
```

**Arguments**

autoReportId   String providing the auto report unique id

**See Also**

[createAutoReport](#)

---

export	<i>Shiny modules providing GUI and server logic for Export</i>
--------	--

---

**Description**

Functions for registries that wants to implement exporting of registry databases, *e.g.* for local development purposes. Also includes relevant helper functions

**Usage**

```
exportUCInput(id)
```

```
exportUCServer(id, registryName, repoName = registryName, eligible = TRUE)
```

```
exportUCApp(registryName = "rapbase")
```

```
selectListPubkey(pubkey)
```

```
exportDb(registryName, compress = FALSE, session)
```

**Arguments**

id	Character string module ID
registryName	Character string registry name key
repoName	Character string defining the github repository name of the registry. Default value is registryName.
eligible	Logical defining if the module should be allowed to work at full capacity. This might be useful when access to module products should be restricted. Default is TRUE, <i>i.e.</i> no restrictions.
pubkey	Character vector with public keys
compress	Logical if export data is to be compressed (using gzip). FALSE by default.
session	Shiny session object

**Value**

Shiny objects, mostly. Helper functions may return other stuff too.

**Examples**

```
## client user interface function
ui <- shiny::fluidPage(
  shiny::sidebarLayout(
    shiny::sidebarPanel(
      exportUCInput("test"),
    ),
    shiny::mainPanel(
      NULL
    )
  )
)

## server function
server <- function(input, output, session) {
  exportUCServer("test", registryName = "rapbase")
}

## run the shiny app in an interactive environment
if (interactive()) {
  shiny::shinyApp(ui, server)
}
```

**Description**

Shiny modules providing the Export Guide

**Usage**

```
exportGuideUI(id)

exportGuideServer(id, registryName)

exportGuideApp()
```

**Arguments**

`id` Character string module ID  
`registryName` Character string registry name key

**Value**

Functions `ui` and `server` representing the (module) app

**Examples**

```
ui <- shiny::fluidPage(
  exportGuideUI("exportGuide")
)

server <- function(input, output, session) {
  exportGuideServer("exportGuide", "test")
}

if (interactive()) {
  shiny::shinyApp(ui, server)
}
```

---

filterAutoRep	<i>Filter auto report data</i>
---------------	--------------------------------

---

**Description**

Generic function to filter various entities from auto report data

**Usage**

```
filterAutoRep(data, by, pass)
```

**Arguments**

`data` List (nested) specifying auto reports to be filtered. May be obtained by `rapbase::getConfig(fileName = "autoReport.yml")`

`by` Character string defining the filtering entity and must be one of `c("package", "type", "owner", "organization")`. The term 'package' represents the registry name

`pass` Character vector defining the values of the filtering entity that will allow reports to pass through the filter

### Value

List of auto reports matching the filtering criteria

### Examples

```
ar <- list(ar1 = list(type = "A"), ar2 = list(type = "B"))
filterAutoRep(ar, "type", "B") # ar2
```

---

`findNextRunDate` *Find next run date for automated reports*

---

### Description

Find the next date that an automated report is supposed to be run. Likely, this function will only be relevant for shiny apps when this date is to be printed

### Usage

```
findNextRunDate(
  runDayOfYear,
  baseDayNum = as.POSIXlt(Sys.Date())$yday + 1,
  startDate = NULL,
  returnFormat = "%A %e. %B %Y"
)
```

### Arguments

`runDayOfYear` Numeric vector providing year-day numbers

`baseDayNum` Numeric defining base year-day. Default is today

`startDate` Character string of format "YYYY-MM-DD" defining the date of the very first run. If set to NULL (default) or a none future date (compared to the date represented by `baseDayNum` for the current year) it will be disregarded.

`returnFormat` String providing return format as described in [strptime](#) in the current locale. Defaults to "%A %d. %B %Y" that will provide something like 'Mandag 20. januar 2019' in a Norwegian locale

### Value

String date for printing

### Examples

```
# Will return Jan 30 in the current year and locale with default formatting
findNextRunDate(c(10, 20, 30), 20)
```

---

fireInTheHole	<i>Kick off functions at Rapporteket</i>
---------------	--

---

**Description**

This function will normally be executed by a cron daemon. Once started this function will nest through schedule functions defined in a configuration file, e.g. "rapbaseConfig.yml".

**Usage**

```
fireInTheHole(flipPeriod = FALSE)
```

**Arguments**

flipPeriod      Logical only used for testing. FALSE by default

**Details**

This is a crontab example running fireInTheHole() every night at 01 hours, Monday through Friday and with emails suppressed:

```
0 1 * * 1-5 Rscript -e 'rapbase::fireInTheHole()' >/dev/null
2>&1
```

**Examples**

```
# Depends on the env var R_RAP_CONFIG_PATH being properly set
fireInTheHole()
```

---

getConfig	<i>Get configuration for package, if any</i>
-----------	--

---

**Description**

Try to obtain yaml-formatted configuration placed either as given by the environment variable R\_RAP\_CONFIG\_PATH or as provided by the package itself. If none can be found the function exits with an error

**Usage**

```
getConfig(fileName = "dbConfig.yml", packageName = "rapbase")
```

**Arguments**

fileName       String providing configuration file base name  
 packageName    String providing the package name

**Value**

A list of (yaml) configuration

**Examples**

```
getConfig()
```

---

getGithub

*Collect various data from the GitHub API*

---

**Description**

Collect various data from the GitHub API

**Usage**

```
getGithub(what, value, .token = NULL)
```

**Arguments**

what            Character string defining the api endpoint. Currently one of c("contributors", "members", "keys").

value           Character string specifying what to collect from the given endpoint. For "contributors" this should be the name of the repository, for "members" value should be the team slug and for "keys" this should be a github user name.

.token          Character string providing a valid token that will be used if the api call requires authentication. Listing of team members do require a token with the appropriate credentials.

**Value**

Character vector with results from the GitHub api request



---

getRapPackages	<i>Get all installed Rapporteket packages</i>
----------------	---

---

**Description**

Get all installed packages that depends on 'rapbase' which itself will not be reported

**Usage**

```
getRapPackages()
```

**Value**

Character vector of packages names

**Examples**

```
## Relevant only in a Rapporteket-like context
if (isRapContext()) {
  getRapPackages()
}
```

---

getRegs	<i>Provide vector of registries (i.e. their R packages) in config</i>
---------	---

---

**Description**

Provide vector of registries (*i.e.* their R packages) in config

**Usage**

```
getRegs(config)
```

**Arguments**

config            list of configuration for automated reports

**Value**

character vector of registry (package) names

---

halloRapporteket      *Plain testing tool*

---

**Description**

To be used for testing purposes

**Usage**

halloRapporteket()

**Value**

message A test message

---

howWeDealWithPersonalData  
*Render text in pop-up*

---

**Description**

Render text on how Rapporteket deals with personal data

**Usage**

howWeDealWithPersonalData(session, callerPkg = NULL)

**Arguments**

session	A shiny session object used to personalize the text
callerPkg	Character string naming the package that makes a call to this function in case version number of the caller package should be added to the returned (html) info text. Default to NULL in which case no version number for the caller will be added to the info text

**Value**

fragment html info text

---

isPkgRapReg	<i>Test if a package is part of Rapporteket</i>
-------------	---

---

**Description**

Test if an installed package is linked to Rapporteket based on dependency to the package 'rapbase'

**Usage**

```
isPkgRapReg(pkg)
```

**Arguments**

pkg                   String providing the package name

**Value**

Logical TRUE if pkg depends on 'rapbase', FALSE if not

**See Also**

[getRapPackages](#) on how to list all packages that depend on 'rapbase'

**Examples**

```
# returns FALSE, rapbase has no explicit dependency to itself
isPkgRapReg("rapbase")
```

---

isRapContext	<i>Rapporteket context</i>
--------------	----------------------------

---

**Description**

Call to this function will return TRUE when run on a system where the environment variable R\_RAP\_INSTANCE is set to either "DEV", "TEST", "QA" or "PRODUCTION" and FALSE otherwise

**Usage**

```
isRapContext()
```

**Value**

Logical if system has a defined Rapporteket context

**Examples**

```
isRapContext()
```

---

loadRegData	<i>Provider of data for registries at Rapporteket</i>
-------------	---

---

**Description**

Generic to registries, provide reporting data obtained from sql databases Underlying this function is rapbase::RapporteketDbConnection

**Usage**

```
loadRegData(registryName, query, dbType = "mysql")
```

```
describeRegistryDb(registryName, tabs = c())
```

**Arguments**

registryName	String Name of the registry as defined in dbConfig.yml
query	String SQL query to obtain the data
dbType	String Type of db to query, currently "mysql" (default) and "mssql"
tabs	Character vector for optional definition of tables to describe. Defaults to an empty vector in which case all tables are used

**Value**

data frame containing registry data or a list with table names and corresponding fields with attributes

---

logger	<i>Log user events in shiny applications at Rapporteket</i>
--------	---

---

**Description**

To be used for logging at application level (*i.e.* when a shiny session is started) or at report level (*i.e.* each time a report is run). Logging of single report events should be made from reactive environments within the shiny server function or from within the (report) functions used by the same reactive environments.

**Usage**

```
appLogger(
  session,
  msg = "No message provided",
  .topcall = sys.call(-1),
  .topenv = parent.frame()
)
```

```
repLogger(
  session,
  msg = "No message provided",
  .topcall = sys.call(-1),
  .topenv = parent.frame()
)
```

```
autLogger(
  user,
  name,
  registryName,
  reshId,
  type,
  pkg,
  fun,
  param,
  msg = "No message provided",
  .topenv = parent.frame()
)
```

**Arguments**

<code>session</code>	Shiny session object to be used for getting user data. For testing and development purposes <code>session</code> can be replaced by <code>list()</code> in which case various config options might be used to provide something sensible.
<code>msg</code>	String providing a user defined message to be added to the log record. Default value is 'No message provided'.
<code>.topcall</code>	Parent call (if any) calling this function. Used to provide the function call with arguments. Default value is <code>sys.call(-1)</code> .
<code>.topenv</code>	Name of the parent environment calling this function. Used to provide package name ( <i>i.e.</i> <code>register</code> ) this function was called from. Default value is <code>parent.frame()</code> .
<code>user</code>	String providing owner of an automated report. Its value should correspond to the actual user name as provided in a shiny session at Rapporteket. Only used for subscription reports that are run outside a shiny session.
<code>name</code>	String providing full name of the report owner. Only used for automated reports that are run outside a shiny session.
<code>registryName</code>	String providing registry name. Only used for automated reports that are run outside a shiny session.

reshId	String providing the organization id of the (subscription) report author. Only used for automated reports that are run outside a shiny session.
type	Character string defining the type of report. Only used for automated reports that are run outside a shiny session in which case its value will replace that of <code>.topcall</code> .
pkg	Character string naming the package of the function that is to be logged. Only used for automated reports that are run outside a shiny session.
fun	Character string naming the function that should be logged. Only used for automated reports that are run outside a shiny session.
param	List of named function parameter. Only used for automated reports that are run outside a shiny session.

### Details

The below fields will be appended to the log, in the following order:

1. `time`: date-time as event is logged as `format(time, "%Y-%m-%d %H:%M:%S")`
2. `user`: username as found in the shiny session object or as provided by function argument
3. `name`: full name of user as found in the shiny session object
4. `group`: users group membership as provided by the shiny session object. Normally, this will correspond to the registry the user belongs to
5. `role`: users role as provided by the shiny session object. Its value will depend on whatever is delivered by the authorization provider, but for OpenQReg registries 'LU' (local user) and 'SC' (system coordinator) are typical values
6. `resh_id`: the organization id of the current user as provided by the shiny session object, OR, when source of logging is auto reports, the organization ID of the data source used to make the report
7. `environment`: environment from where the logger function was called (only provided by `repLogger()`)
8. `call`: function (with arguments) from where the logger was called (only provided by `repLogger()`)
9. `message`: an optional message defined as argument to the function

The `autLogger()` function is a special case to be used for automated reports. Since such reports are run outside a reactive (shiny) context shiny session data are not available to the logger. Hence, logging data must be provided as arguments directly. As of rapbase version 1.12.0 logging of automated reports are already taken care of. Hence, this function should not be applied per registry application.

### Value

Returns nothing but calls a logging appender

**Note**

Pseudo code of how `appLogger()` may be implemented:

```
library(shiny)
library(raplog)

server <- function(input, output, session) {
  raplog::appLogger(session, msg = "Smerteregisteret: starting shiny app")
  ...
}
```

Pseudo code on how `repLogger()` can be implemented as part of a function in a reactive (shiny) context. First, this is an example of the shiny server function with the (reactive) function `renderPlot()` calling a function that provides a histogram:

```
library(shiny)
library(raplog)

server <- function(input, output, session) {
  ...
  output$hist <- renderPlot({
    makeHist(data, var = input$var, bins = input$bins, session = session)
  })
  ...
}
```

Then, logging is called within the function `makeHist()`:

```
makeHist <- function(data, var, bins, ...) {

  if ("session" %in% names(list(...))) {
    raplog::repLogger(session = list(...)[["session"]],
                      msg = "Providing histogram")
  }
  ...
}
```

**Examples**

```
# Depend on the environment variable R_RAP_CONFIG_PATH being set
try(appLogger(list()))
```

```
# Depend on the environment variable R_RAP_CONFIG_PATH being set
try(repLogger(list()))
```

```
# Depend on the environment variable R_RAP_CONFIG_PATH being set
try(autoLogger(user = "ttester", registryName = "rapbase", reshId = "999999"))
```

---

makeAutoReportTab      *Make table of automated reports*

---

### Description

Make a table to be rendered in a shiny app providing automated reports from a given user or registry as obtained from the shiny session object provided or environmental variables when run inside an app container.

### Usage

```
makeAutoReportTab(
  session,
  namespace = character(),
  user = rapbase::getUserName(session),
  group = rapbase::getUserGroups(session),
  orgId = rapbase::getUserReshId(session),
  type = "subscription",
  mapOrgId = NULL,
  includeReportId = FALSE
)
```

### Arguments

session	A shiny session object
namespace	String naming namespace. Defaults to character() in which case no namespace will be created. When this function is used by shiny modules namespace must be provided.
user	Character string providing the username. Introduced as a new argument when running apps inside containers. Default value is set to rapbase::getUserName(session) to allow backward compatibility.
group	Character string defining the registry, normally corresponding to the R package name and the value stemming from the SHINYPROXY_GROUPS environment variable. Introduced as a new argument when running apps inside containers. Default value is set to rapbase::getUserGroups(session) to allow backward compatibility.
orgId	Character string or integer defining the organization (id) for user. Default value is set to rapbase::getUserReshId(session) to allow backward compatibility.
type	Character string defining the type of auto reports to tabulate. Must be one of "subscription", "dispatchment" or "bulletin". Default value set to "subscription".



mapOrgId	Data frame containing the two columns 'name' and 'id' corresponding to unique name and id of organizations. Default is NULL in which case the ids provided in auto report data will be used. In case mapOrgId is not NULL but no id match is found the id found in the auto report data will also be used
includeReportId	Logical if the unique report id should be added as the last column in the table. FALSE by default.

### Details

Each table record (line) represents a uniquely defined automated report. For each line two shiny action buttons are provided to allow for editing and deleting of each entry. For applications implementing this table observing events on these action buttons may be used to allow users to manage automated reports by GUI. The action buttons for editing and deleting are provided with the static input ids *edit\_button* and *del\_button* and upon clicking the *button* part of their ids will change to the unique id of the report. Hence, a GUI call for editing a report can be caught by `shiny::observeEvent("edit_button")` and within this event the report id is obtained by collecting the string after the double underscore, e.g. `strsplit(input$edit_button, "__")[[1]][2]`.

Optionally, report id may be provided as the last column in the table to allow further development for registry specific purposes. Regardless, this column should normally be hidden in the GUI.

Take a look at the [example shiny server function in rapRegTemplate](#) on how this function may be implemented.

### Value

Matrix providing a table to be rendered in a shiny app

---

makeRunDayOfYearSequence

*Make a sequence of day numbers from av given date and interval*

---

### Description

This function provides an even sequence of day numbers spanning 365/366 days from the start date and interval provided. Mainly to be used in setting up automated reports at Rapporteket

### Usage

```
makeRunDayOfYearSequence(startDay = Sys.Date(), interval)
```

### Arguments

startDay	Start date of sequence. May be provided as a string, e.g. <code>"2019-03-17"</code> or as class <code>"Date"</code> . Defaults to today
interval	String representing a valid seq.POSIXt interval such as <code>"DSTday"</code> , <code>"week"</code> , <code>"month"</code> , <code>"quarter"</code> or <code>"year"</code> )

**Value**

Integer vector of day numbers

**Examples**

```
makeRunDayOfYearSequence(interval = "month")
```

---

makeStandardTable	<i>Make standard table for rmarkdown reports</i>
-------------------	--

---

**Description**

Function that will return tables used in reports.

**Usage**

```
mst(
  tab,
  col_names = colnames(tab),
  type = "pdf",
  cap = "",
  label = knitr::opts_current$get("label"),
  digs = 0,
  align = NULL,
  fs = 8,
  lsd = FALSE
)
```

**Arguments**

tab	Data frame or matrix representing the table.
col_names	Character vector with column names. Defaults <code>colnames(tab)</code> .
type	Character string defining output, either "html" or "pdf". Default is "pdf".
cap	Character string with table caption. Empty string by default.
label	Character string defining the label in case the table needs to be referenced elsewhere in the overall document. For instance, setting this to 'my_table' the corresponding inline rmarkdown reference to use is <code>\@ref(tab:my_table)</code> . Please note that for this to work for both LaTeX and HTML the bookdown document processing functions must be used, <i>i.e.</i> <code>bookdown::pdf_document2()</code> and <code>bookdown::html_document2()</code> , respectively. Default value is <code>knitr::opts_current\$get("label")</code> in which case the name of the current R chunk will be used as label.
digs	Integer number of digits to use. 0 by default.
align	Character vector specifying column alignment in the LaTeX way, <i>e.g.</i> <code>c("l", "c", "r")</code> will align the first column to the left, center the second and right-align the last one. Default is NULL in which case numeric columns are right-aligned and all other columns are left-aligned.

fs	Integer providing the font size. Applies only for pdf output. Default value is 8.
lsd	Logical if table is to be scaled down. Applies only for pdf output. FALSE by default.

### Details

mst() creates RMarkdown code for creating standard tables.

### Value

Character string containing RMarkdown table code

### Examples

```
mst(tab = mtcars[1:10, ])
```

---

navbarWidget	<i>Shiny modules providing GUI and server logic for user info widget</i>
--------------	--

---

### Description

Shiny modules for making a user information widget in registry shiny apps at Rapporteket. One benefit using these modules will be reduced complexity and number of code lines for each registry.

### Usage

```
navbarWidgetInput(id, addUserInfo = TRUE, selectOrganization = FALSE)

navbarWidgetServer(id, orgName, caller = environmentName(rlang::caller_env()))

navbarWidgetServer2(
  id,
  orgName,
  caller = environmentName(topenv(parent.frame()))
)

navbarWidgetApp(orgName = "Org Name")
```

### Arguments

id	Character string providing module namespace
addUserInfo	Logical defining if an "about" hyperlink is to be added
selectOrganization	Logical providing option for selecting among available organizations and roles.
orgName	Character string naming the organization

**caller** Character string naming the environment this function was called from. Default value is `environmentName(topenv(parent.frame()))`. The value is used to display the current version of the R package representing the registry at Rapporteket. If this module is called from exported functions in the registry R package the default value should be applied. If the module is called from outside the registry environment `caller` must be set to the actual name of the R package.

## Details

These modules take use of the shiny session object to obtain data for the widget. Hence, a Rapporteket like context will be needed for these modules to function properly. For deployment of (shiny) application as containers make sure to migrate to `navbarWidgetServer2()`. In addition to serving the user information widget, this function provides a list of reactive user attributes. Hence, when using `navbarWidgetServer2()` the source of (static) user attributes is no longer the shiny session object but rather the list object (of reactive user attributes) returned by this function.

## Value

Shiny objects, mostly. `navbarWidgetServer2()` invisibly returns a list of reactive values representing user metadata and privileges. See [userAttribute](#) for further details on these values.

## Examples

```
## client user interface function
ui <- shiny::tagList(
  shiny::navbarPage(
    "Testpage",
    shiny::tabPanel(
      "Testpanel",
      shiny::mainPanel(
        navbarWidgetInput("testWidget")
      )
    )
  )
)

## server function
server <- function(input, output, session) {
  navbarWidgetServer("testWidget", orgName = "Test org", caller = "Rpkg")
}

## run the app in an interactive session and a Rapporteket like environment
if (interactive() && isRapContext()) {
  shiny::shinyApp(ui, server)
}
```

---

noOptOutOk	<i>Provide a no-opt-out ok message</i>
------------	--

---

**Description**

To be applied for user input when there is actually no choice :-)

**Usage**

```
noOptOutOk()
```

**Value**

String with possible state of mind (in Norwegian) once left with no options

**Examples**

```
noOptOutOk()
```

---

rapbase	<i>rapbase: Base Functions and Resources for Rapporteket</i>
---------	--

---

**Description**

Provide common functions and resources for registry specific R-packages at Rapporteket. This packages is relevant for developers of packages/registries at Rapporteket

---

rapCloseDbConnection	<i>Close down data connection handle</i>
----------------------	--

---

**Description**

Close down data connection handle

**Usage**

```
rapCloseDbConnection(con)
```

**Arguments**

con            Open connection object that is to be closed

---

rapOpenDbConnection    *Provide connection handle for data source at Rapporteket*

---

### Description

Generic to registries, handle the data source connections, including usernames and passwords needed to open these connections

### Usage

```
rapOpenDbConnection(registryName, dbType = "mysql")
```

### Arguments

registryName	String id used for the registry in global configuration file from which information on the database connection is provided
dbType	String providing type of data source, one of "mysql" and "mssql". Defaults to "mysql"

### Value

A named list of con and drv representing the db connection handle and driver, respectively.

---

readAutoReportData    *Read automated report metadata*

---

### Description

Read automated report metadata

### Usage

```
readAutoReportData(fileName = "autoReport.yml", packageName = "rapbase")
```

### Arguments

fileName	String defining name of the yaml configuration file. Default 'autoReport.yml'
packageName	String defining the package in which the above configuration file resides. A configuration file within an R-package is only used in case the environmental variable 'R_RAP_CONFIG_PATH' is not defined (empty)

### Value

a list of yaml data

### Examples

```
readAutoReportData()
```

---

`renderRmd`*Render documents from rmarkdown files at Rapporteket*

---

## Description

Function that renders documents at Rapporteket from rmarkdown source files. Output formats may be (vanilla) HTML or PDF based on our own pandoc latex template or fragments of html when the result is to be embedded in existing web pages. Rmarkdown allow parameters to be part of report processing. Thus, parameters that are specific to reports must be provided (as a named list) when calling `renderRmd()`.

## Usage

```
renderRmd(  
  sourceFile,  
  outputType = "html",  
  logoFile = NULL,  
  params = list(),  
  template = "default"  
)
```

## Arguments

<code>sourceFile</code>	Character string providing the path to the rmarkdown source file.
<code>outputType</code>	Character string specifying the output format. Must be one of <code>c("pdf", "html", "html_fragment")</code> . Default value is "html".
<code>logoFile</code>	Character string with path to the logo to be used for PDF output. Often, this will be the registry logo. Only PNG and PDF graphics are allowed. Default value is NULL in which case no such logo will be added to the output document.
<code>params</code>	List of report parameters (as named values) to override the corresponding entries under <i>params</i> in the rmarkdown document yaml header. Default is NULL in which case no parameters as defined in the rmarkdown document will be overridden.
<code>template</code>	Character string defining which template to use for making pdf documents. Must be one of "default" or "document" where the first is assumed if this argument is not set.

## Value

Character string with path to the rendered file or, if `outputType` is set to "html\_fragment", a character string providing an html fragment. Files are named according to `tempfile()` with an empty pattern and with the extension according to `outputType` ("pdf" or "html").

---

runAutoReport	<i>Run reports as defined in yaml config and ship content by email</i>
---------------	--

---

### Description

Usually to be called by a scheduler, e.g. cron. If the provided day of year matches those of the config the report is run as otherwise specified in config. Functions called upon are expected to return a character string providing a path to a file that can be attached to an email or, in case of a bulletin, the email body itself. For bulletins, files cannot be attached. The email itself is prepared and sent to recipients defined in the config

### Usage

```
runAutoReport(
  dayNumber = as.POSIXlt(Sys.Date())$yday + 1,
  type = c("subscription", "dispatchment"),
  dryRun = FALSE
)
```

### Arguments

dayNumber	Integer day of year where January 1st is 1. Defaults to current day, <i>i.e.</i> <code>as.POSIXlt(Sys.Date())\$yday + 1</code> (POSIXlt yday is base 0)
type	Character vector defining the type of reports to be processed. May contain one or more of <code>c("subscription", "dispatchment", "bulletin")</code> . Defaults value set to <code>c("subscription", "dispatchment")</code> .
dryRun	Logical defining if emails are to be sent. If TRUE a message with reference to the payload file is given but no emails will actually be sent. Default is FALSE

### Value

Emails with corresponding file attachment. If `dryRun == TRUE` just a message

### Examples

```
# Example depend on environment variable R_RAP_CONFIG_PATH being set
runAutoReport()
```



---

runBulletin	<i>Run bulletin auto reports</i>
-------------	----------------------------------

---

**Description**

This is a wrapper for `runAutoReport()` to issue bulletins. Purpose is to ease simplify fire-in-the-hole at Rapporteket

**Usage**

```
runBulletin()
```

**Value**

Whatever `runAutoReport()` might provide

---

runNoweb	<i>runNoweb</i>
----------	-----------------

---

**Description**

Function to run noweb file contained in a package. Assume all noweb files of the package are placed flat under the *inst* directory

**Usage**

```
runNoweb(nowebFileName, packageName, weaveMethod = "knitr")
```

**Arguments**

nowebFileName	Basename of the noweb file, <i>e.g.</i> 'myFile.Rnw'.
packageName	Name of the package containing noweb file(s)
weaveMethod	Method to apply for weaving. Currently available are 'Sweave' and 'knitr', default to the latter.

---

sanitizeLog	<i>Sanitize log entries that have reached end of life</i>
-------------	---

---

**Description**

Sanitize log entries that have reached end of life

**Usage**

```
sanitizeLog()
```

**Value**

NULL on success

---

sendEmail	<i>Send email from Rapporteket</i>
-----------	------------------------------------

---

**Description**

This function can be used to send email from within R at Rapporteket. It relies on (and must hence be provided) specific settings through local configuration to work properly.

**Usage**

```
sendEmail(conf, to, subject, text, attFile = NULL)
```

**Arguments**

conf	List containing (Rapporteket) config such as sender email address, SMTP server url and port number
to	Character vector containing email addresses. May also contain full names like 'Jane Doe <janed@nowhere.com>'
subject	Character string providing email subject.
text	Character string providing the plain email text
attFile	Character string providing the full file path to an attachment. Default is NULL in which case no attachment is made

**Value**

Invisible sending of email

---

stagingData	<i>Staging data functions</i>
-------------	-------------------------------

---

### Description

Low level functions for handling registry staging data at Rapporteket. As such, these functions does not provide staging data management *per se*. Proper management, *e.g.* staging data updates and fallback logic must therefore be established within each registry that take staging data into use.

### Usage

```
listStagingData(registryName, dir = Sys.getenv("R_RAP_CONFIG_PATH"))

mtimeStagingData(registryName, dir = Sys.getenv("R_RAP_CONFIG_PATH"))

saveStagingData(
  registryName,
  dataName,
  data,
  dir = Sys.getenv("R_RAP_CONFIG_PATH")
)

loadStagingData(registryName, dataName, dir = Sys.getenv("R_RAP_CONFIG_PATH"))

deleteStagingData(
  registryName,
  dataName,
  dir = Sys.getenv("R_RAP_CONFIG_PATH")
)

cleanStagingData(eolAge, dryRun = TRUE)
```

### Arguments

registryName	Character string providing the registry name.
dir	Character string providing the path to where the staging data directory resides in case of storage as files. Default value is <code>Sys.getenv("R_RAP_CONFIG_PATH")</code> .
dataName	Character string providing the data set name.
data	A data object such as a <code>data.frame</code> to be stored as <code>dataName</code> .
eolAge	Numeric providing the staging data end-of-life age in seconds. Based on the current time and the time of storage staging files older than <code>eolAge</code> will be identified as subject for removal.
dryRun	Logical defining if function is to be run in dry (none destructive) mode.

## Details

Staging data can be stored as files or as binary large objects in a database and method of choice is defined by the rabase configuration. Regardless of storage method a per registry symmetric encryption of storage content is enforced. Keys used for encryption are generated from existing database credentials. Therefore, please note that removing or changing such credentials will render any historic staging data inaccessible.

`cleanStagingData()` globally removes all staging data with store date prior to the end-of-life age provided. This is a vastly destructive function that should be used with great care.

## Value

- `listStagingData()` returns a character vector of staging data sets for the given registry (`registryName`).
- `mtimeStagingData()` returns a staging data set named POSIXct vector of modification times for the given registry (`registryName`).
- `saveStagingData()` when successful returns the data object (`data`), invisibly. If saving fails a warning is issued and the function returns `FALSE`.
- `loadStagingData()` returns the data object corresponding to the name given upon saving (`dataName`). If the requested data set for loading does not exist the function returns `FALSE`.
- `deleteStagingData()` returns `TRUE` if the data set was deleted and `FALSE` if not.
- `cleanStagingData()` returns a list of data sets (to be) removed.
- `rapbase:::pathStagingData()` is an internal helper function and returns a character string with the path to the staging directory of `registryName`. If its parent directory (`dir`) does not exist an error is returned.

## Examples

```
## Prep test data
registryName <- "rapbase"
dataName <- "testData"
data <- mtcars
dir <- tempdir()

## Save data for staging
saveStagingData(registryName, dataName, data, dir)

## List data currently in staging
listStagingData(registryName, dir)

## Retrieve data set from staging and compare to outset
stagedData <- loadStagingData(registryName, dataName, dir)
identical(data, stagedData)

## Get modification time for staging file(s)
mtimeStagingData(registryName, dir)
```

## Description

These modules may be used by registries for easy setup of usage reports. The intended purpose is to provide registry staff access to when and by whom the resources at Rapporteket were used, *i.e.* application start-up and single report usage. As such, this will be a tool to provide useful statistics. However, it might also serve as a formal monitor utility but only if logging is carefully implemented throughout the relevant functions that make up the registry application at Rapporteket.

## Usage

```
statsInput(id)

statsUI(id)

statsServer(id, registryName, eligible = TRUE)

statsApp()

logFormat(log)

logTimeFrame(log, startDate, endDate)
```

## Arguments

<code>id</code>	Character string shiny module id
<code>registryName</code>	Character string registry name key
<code>eligible</code>	Logical defining if the module should be allowed to work at full capacity. This might be useful when access to module products should be restricted. Default is TRUE, <i>i.e.</i> no restrictions.
<code>log</code>	Data frame containing log data (in Rapporteket format)
<code>startDate</code>	Date object defining start of interval (character representation "YYYY-MM-DD")
<code>endDate</code>	Date object defining end of interval (character representation "YYYY-MM-DD")

## Value

Shiny objects, mostly. Helper functions may return other stuff too.

## Examples

```
# client user interface function
ui <- shiny::fluidPage(
  shiny::sidebarLayout(
```

```
      shiny::sidebarPanel(statsInput("test")),
      shiny::mainPanel(statsUI("test"))
    )
  )

# server function
server <- function(input, output, session) {
  statsServer("test", registryName = "rapbase", eligible = TRUE)
}

# run the shiny app in an interactive environment
if (interactive()) {
  shiny::shinyApp(ui, server)
}
```

---

statsGuide

*Shiny modules providing the Stats Guide*

---

## Description

Shiny modules providing the Stats Guide

## Usage

```
statsGuideUI(id)

statsGuideServer(id, registryName)

statsGuideApp()
```

## Arguments

<code>id</code>	Character string module ID
<code>registryName</code>	Character string registry name key

## Value

Functions `ui` and `server` representing the (module) app

## Examples

```
ui <- shiny::fluidPage(
  statsGuideUI("statsGuide")
)

server <- function(input, output, session) {
  statsGuideServer("statsGuide", "test")
}
```

```

if (interactive()) {
  shiny::shinyApp(ui, server)
}

```

---

unitAttribute      *Get unit attributes from an access tree file*

---

### Description

Obtain organization unit attributes from an access tree JSON file

### Usage

```
unitAttribute(unit, what, file = NULL, path = Sys.getenv("R_RAP_CONFIG_PATH"))
```

### Arguments

unit	Integer providing the look-up unit id
what	Character string defining what to return for the given unit id
file	Character string file name of the JSON file. Default values is NULL in which case the corresponding value from rapbaseConfig.yml will be used.
path	Character string file path of the JSON file. Default value is Sys.getenv("R_RAP_CONFIG_PATH").

### Value

The corresponding value of 'what'.

---

upgradeAutoReportData      *Upgrade auto reports*

---

### Description

Upgrade auto report config as new features emerge. Currently, the type definition is added and set to 'subscription' that historically has been the only type used

### Usage

```
upgradeAutoReportData(config)
```

### Arguments

config	List of auto report configuration
--------	-----------------------------------

### Value

List of (upgraded) auto report configuration

---

userAttribute      *User attributes in container apps running behind shinyproxy*

---

### Description

For apps running as containers particular environment variables must be defined for an orderly handling of dynamic user privileges. This function makes use of environmental variables defined by shinyproxy to provide available privileges for the shiny application.

These are helper function for [userInfo](#). When used without a shiny session object calls to these functions is made without any arguments. If redefining contexts is needed, please use [userInfo](#) instead.

### Usage

```
userAttribute(group, unit = NULL)

getUserEmail(shinySession = NULL, group = NULL)

getUserFullName(shinySession = NULL, group = NULL)

getUserGroups(shinySession = NULL, group = NULL)

getUserNames(shinySession = NULL, group = NULL)

getUserPhone(shinySession = NULL, group = NULL)

getUserReshId(shinySession = NULL, group = NULL)

getUserRole(shinySession = NULL, group = NULL)
```

### Arguments

group	Character string providing the name of the app R package name. The term "group" is used to relate to the environmental variable SHINYPROXY_USERGROUPS that corresponds to the apps a given user can access. Default value is NULL but should always be set when shiny app is run as a shinyproxy container.
unit	Integer providing the look-up unit id. Default value is NULL in which case all privileges for group are returned.
shinySession	A shiny session object. Default value is NULL

### Value

Invisibly a list of user metadata and privileges:

**name** The username for whom the privileges apply.

**fullName** User full name



**phone** User phone number  
**email** User email  
**group** Group of which the user is a member.  
**unit** Unit id under which the privileges are defined.  
**org** Organization id for the user.  
**role** Role of the user.  
**orgName** Name of the organization as defined under the unit id.

String with user attribute

### Examples

```
# Requires a valid shiny session object
try(getUserEmail())
try(getUserEmail(shinySessionObject))
```

---

userInfo	<i>Provide user attributes based on environment context</i>
----------	---

---

### Description

Extracts elements from either config, url (shiny), shiny session or environmental variables relevant for user data such as name, group, role and org id (*e.g.* resh id). Source of info is based on environment context and can be controlled by altering the default settings for which contexts that will apply for the various sources of user data. This function will normally be used via its helper functions (see below).

### Usage

```
userInfo(
  entity,
  shinySession = NULL,
  devContexts = c("DEV"),
  testContexts = c("TEST"),
  prodContexts = c("QA", "QAC", "PRODUCTION", "PRODUCTIONC"),
  group = NULL
)
```

### Arguments

entity	String defining the element to return. Currently, one of 'user', 'groups', 'resh_id', 'role', 'email', 'full_name' or 'phone'.
shinySession	Shiny session object (list, NULL by default). Must be provided when the source of user attributes is either the shiny app url or an external authentication provider. By default this will apply to the 'TEST', 'QA' and 'PRODUCTION' contexts in which case the shiny session object must be provided.

devContexts	A character vector providing unique instances to be regarded as a development context. In this context user attributes will be read from configuration as provided by 'rapbaseConfig.yml'. The instances provided cannot overlap instances provided in any other contexts. By default set to c("DEV").
testContexts	A character vector providing unique instances to be regarded as a test context. In this context user attributes will be read from the url call to a shiny application. Hence, for this context the corresponding shiny session object must also be provided. The instances provided cannot overlap instances provided in any other contexts. By default set to c("TEST").
prodContexts	A character vector providing unique instances to be regarded as a production context. In this context user attributes will be read from the shiny session object (on deployment in shiny-server) or, from environmental variables (on standalone container deployment). Hence, for this context the corresponding shiny session object must also be provided. Instances provided cannot overlap instances in any other contexts. By default set to c("QA", "QAC", "PRODUCTION", "PRODUCTIONC"). Duplication as seen by the "C" suffix will be needed as long as apps in question are to be run on both shiny-server and as standalone containers.
group	Character string providing the name of the app R package name. The term "group" is used to relate to the environmental variable SHINYPROXY_USERGROUPS that corresponds to the apps a given user can access.

**Value**

String of single user data element

**See Also**

[getUserName](#), [getUserGroups](#), [getUserReshId](#), [getUserRole](#)

---

writeAutoReportData    *Write automated report metadata*

---

**Description**

Write automated report metadata

**Usage**

```
writeAutoReportData(
  fileName = "autoReport.yml",
  config,
  packageName = "rapbase"
)
```

**Arguments**

<code>fileName</code>	String defining name of the yaml configuration file. Default 'autoReport.yml'
<code>config</code>	a list of yaml configuration
<code>packageName</code>	String defining the package in which the above configuration file resides. A configuration file within an R-package is only used in case the environmental variable 'R_RAP_CONFIG_PATH' is not defined (empty)

**Examples**

```
# Example depend on environment variable R_RAP_CONFIG_PATH being set
config <- readAutoReportData()
try(writeAutoReportData(config = config))
```

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