

# Package: okapi (via r-universe)

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**Type** Package

**Title** Open Data Kit (ODK)-based Computer-assisted Personal Interviewing (CAPI) Tools

**Version** 0.1.0.9000

**Description** Data collection using computer-assisted personal interviewing or CAPI tools is now the standard approach for conducting surveys and studies. A wide range of CAPI systems are currently being used. The ability to interface with these systems helps in the overall data process. This package provides interface functions to CAPI systems based on the Open Data Kit or ODK technology.

**License** GPL-3

**Imports** htr, tibble, jsonlite, askpass

**Suggests** spelling, covr

**Encoding** UTF-8

**Language** en-GB

**LazyData** true

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**URL** <https://rapidsurveys.io/okapi/>,<https://github.com/rapidsurveys/okapi>

**BugReports** <https://github.com/rapidsurveys/okapi/issues>

**Repository** <https://humanitarian-user-group.r-universe.dev>

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kobo_auth_password	<i>Basic authentication to KoBo Toolbox with a username and password</i>
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### Description

Basic authentication to KoBo Toolbox with a username and password

### Usage

```
kobo_auth_password(username, password = askpass::askpass())
```

### Arguments

username	KoBo Toolbox username.
password	KoBo Toolbox password. Default is an interactive input of password.

### Value

System environment variables for KOBO\_KF\_USERNAME and KOBO\_KF\_PASSWORD

**Examples**

```
kobo_auth_password(username = Sys.getenv("KOBO_USERNAME"),  
                  password = Sys.getenv("KOBO_PASSWORD"))
```

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kobo_auth_token	<i>Basic authentication to KoBo Toolbox with API authentication token</i>
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---

**Description**

Basic authentication to KoBo Toolbox with API authentication token

**Usage**

```
kobo_auth_token(token)
```

**Arguments**

token            KoBo Toolbox API authentication token.

**Value**

System environment variables for KOBO\_KF\_TOKEN

**Examples**

```
kobo_auth_token(token = Sys.getenv("KOBO_TOKEN"))
```

---

kobo_get_data	<i>Retrieve specific dataset by form ID from specific user</i>
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---

**Description**

Retrieve specific dataset by form ID from specific user

**Usage**

```
kobo_get_data(  
  base_url = "https://kf.kobotoolbox.org",  
  auth_mode = "token",  
  asset_id  
)
```

**Arguments**

base_url	KoBo Toolbox URL. Default is <a href="https://kf.kobotoolbox.org">https://kf.kobotoolbox.org</a> .
auth_mode	Password or token? Default is token.
asset_id	Unique asset identifier.

**Value**

A tibble of datasets available to specific user.

**Examples**

```
kobo_auth_token(token = Sys.getenv("KOBO_TOKEN"))
kobo_get_data(asset_id = "aKJTpKiVUcPYim2epKkPvW")
```

---

kobo_list_assets	<i>Retrieve list of assets available to specific user</i>
------------------	---

---

**Description**

Retrieve list of assets available to specific user

**Usage**

```
kobo_list_assets(base_url = "https://kf.kobotoolbox.org", auth_mode = "token")
```

**Arguments**

base_url	KoBo Toolbox URL. Default is <a href="https://kf.kobotoolbox.org">https://kf.kobotoolbox.org</a> .
auth_mode	Password or token? Default is token.

**Value**

A list of assets available to specific user.

**Examples**

```
kobo_auth_token(token = Sys.getenv("KOBO_TOKEN"))
kobo_list_assets()
```

---

ona\_auth\_password      *Basic authentication to ONA with a username and password*

---

**Description**

Basic authentication to ONA with a username and password

**Usage**

```
ona_auth_password(username, password = askpass::askpass())
```

**Arguments**

username	ONA username.
password	ONA password. Default is an interactive input of password.

**Value**

System environment variables for ONA\_USERNAME and ONA\_PASSWORD

**Examples**

```
ona_auth_password(username = Sys.getenv("ONA_USERNAME"),  
                  password = Sys.getenv("ONA_PASSWORD"))
```

---

ona\_auth\_token      *Basic authentication to ONA with API authentication token*

---

**Description**

Basic authentication to ONA with API authentication token

**Usage**

```
ona_auth_token(token)
```

**Arguments**

token	ONA API authentication token.
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**Value**

System environment variables for ONA\_TOKEN

**Examples**

```
ona_auth_token(token = Sys.getenv("ONA_TOKEN"))
```

---

ona_configure	<i>Configure HTTP headers</i>
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---

**Description**

Configure HTTP headers

**Usage**

```
ona_configure(auth_mode = c("token", "password"))
```

**Arguments**

auth\_mode Password or token? Default is token.

**Value**

An object of class request for HTTP requests

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ona_data_get	<i>Retrieve specific dataset by form ID from specific user</i>
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**Description**

Retrieve specific dataset by form ID from specific user

**Usage**

```
ona_data_get(
  base_url = "https://api.ona.io",
  auth_mode = c("token", "password"),
  form_id
)
```

**Arguments**

base\_url ONA URL. Default is <https://api.ona.io>.  
 auth\_mode Password or token? Default is token.  
 form\_id Form identifier.

**Value**

A tibble of retrieved dataset.

**Examples**

```
ona_data_get(form_id = 276175)
```

---

ona_data_list	<i>Retrieve list of datasets available to specific user</i>
---------------	---

---

**Description**

Retrieve list of datasets available to specific user

**Usage**

```
ona_data_list(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password")  
)
```

**Arguments**

base_url	ONA URL. Default is <a href="https://api.ona.io">https://api.ona.io</a> .
auth_mode	Password or token? Default is token.

**Value**

A tibble of datasets available to specific user.

**Examples**

```
ona_data_list()
```

---

ona_form_delete	<i>Delete published form</i>
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---

**Description**

Delete published form

**Usage**

```
ona_form_delete(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password"),  
  form_id = NULL  
)
```

**Arguments**

base\_url        ONA URL. Default is <https://api.ona.io>.  
 auth\_mode      Password or token? Default is token.  
 form\_id        Form identifier.

**Value**

Delete specified form from ONA.

**Examples**

```
form_list <- ona_form_list()
form_id <- form_list[["formid"]][form_list[["title"]] == "Appearance Widgets"]
ona_form_delete(form_id = form_id)
```

---

ona_form_list	<i>List published forms</i>
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---

**Description**

List published forms

**Usage**

```
ona_form_list(
  base_url = "https://api.ona.io",
  auth_mode = c("token", "password")
)
```

**Arguments**

base\_url        ONA URL. Default is <https://api.ona.io>.  
 auth\_mode      Password or token? Default is token.

**Value**

A tibble of published forms.

**Examples**

```
ona_form_list()
```



---

ona_form_publish	<i>Publish XLSForm</i>
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---

**Description**

Publish XLSForm

**Usage**

```
ona_form_publish(
  base_url = "https://api.ona.io",
  auth_mode = c("token", "password"),
  xls_file = NULL,
  xls_url = NULL,
  dropbox_xls_url = NULL,
  project_id = NULL,
  public = FALSE
)
```

**Arguments**

base_url	ONA URL. Default is <a href="https://api.ona.io">https://api.ona.io</a> .
auth_mode	Password or token? Default is token.
xls_file	Path to the XLSForm file.
xls_url	URL to the XLSForm file.
dropbox_xls_url	Dropbox URL to the XLSForm file.
project_id	Project identifier of project to publish XLSForm to. If NULL (default), XLSForm is published to the an account's default project.
public	Logical. Should the form be public? Default to FALSE.

**Value**

A published form on ONA.

**Examples**

```
project_list <- ona_project_list()
if ("test" %in% project_list$name) {
  project_id = project_list$id[project_list$name == "test"]
  ona_project_delete(project_id = project_id)
}
ona_project_register(name = "test")
project_list <- ona_project_list()
project_id = project_list$id[project_list$name == "test"]
ona_form_publish(
```

```
xls_file = system.file(  
  "appearance_widgets.xlsx", package = "okapi"  
)  
project_id = project_id  
)
```

---

ona_org_delete	<i>Delete registered organisation</i>
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---

### Description

Delete registered organisation

### Usage

```
ona_org_delete(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password"),  
  org  
)
```

### Arguments

base_url	ONA URL. Default is <a href="https://api.ona.io">https://api.ona.io</a> .
auth_mode	Password or token? Default is token.
org	Organisation short name or username.

### Value

Delete specified organisation from specific ONA account.

### Examples

```
org_list <- ona_org_list()  
org_name <- org_list[["org"]]  
ona_org_delete(org = org_name)
```

---

ona_org_list	<i>List organisations</i>
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---

**Description**

List organisations

**Usage**

```
ona_org_list(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password")  
)
```

**Arguments**

base\_url        ONA URL. Default is <https://api.ona.io>.  
auth\_mode       Password or token? Default is token.

**Value**

A tibble of organisations.

**Examples**

```
ona_org_list()
```

---

ona_org_register	<i>Register an organisation</i>
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---

**Description**

Register an organisation

**Usage**

```
ona_org_register(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password"),  
  org,  
  name = NULL  
)
```

**Arguments**

base_url	ONA URL. Default is <a href="https://api.ona.io">https://api.ona.io</a> .
auth_mode	Password or token? Default is token.
org	Organisation short name or username.
name	Organisation full name. If NULL (default), short name is used.

**Value**

Invisible. Organisation registered and created in ONA account

**Examples**

```
ona_org_register(org = "okapi_organisation")
```

---

ona_project_delete	<i>Delete registered project</i>
--------------------	----------------------------------

---

**Description**

Delete registered project

**Usage**

```
ona_project_delete(
  base_url = "https://api.ona.io",
  auth_mode = c("token", "password"),
  project_id = NULL
)
```

**Arguments**

base_url	ONA URL. Default is <a href="https://api.ona.io">https://api.ona.io</a> .
auth_mode	Password or token? Default is token.
project_id	Project identifier.

**Value**

Delete specified project from specific ONA account.

**Examples**

```
project_list <- ona_project_list()
project_id <- project_list[["projectid"]]
ona_project_delete(project_id = project_id)
```

---

ona_project_info	<i>Get project info</i>
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---

**Description**

Get project info

**Usage**

```
ona_project_info(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password"),  
  project_id = NULL  
)
```

**Arguments**

base_url	ONA URL. Default is <a href="https://api.ona.io">https://api.ona.io</a> .
auth_mode	Password or token? Default is token.
project_id	Project identifier.

**Value**

A tibble of projects.

**Examples**

```
ona_project_info(project_id = 12345)
```

---

ona_project_list	<i>List projects</i>
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---

**Description**

List projects

**Usage**

```
ona_project_list(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password")  
)
```

**Arguments**

base\_url      ONA URL. Default is <https://api.ona.io>.  
 auth\_mode     Password or token? Default is token.

**Value**

A tibble of projects.

**Examples**

```
ona_project_list()
```

---

ona\_project\_register    *Register a project*

---

**Description**

Register a project

**Usage**

```
ona_project_register(  
  base_url = "https://api.ona.io",  
  auth_mode = c("token", "password"),  
  owner = Sys.getenv("ONA_USERNAME"),  
  name = NULL,  
  public = TRUE  
)
```

**Arguments**

base\_url      ONA URL. Default is <https://api.ona.io>.  
 auth\_mode     Password or token? Default is token.  
 owner         Username or organisation name creating the project. Default to username of currently authenticated account (via 'Sys.getenv(ONA\_USERNAME)'). If organisation name, should be an organisation to which currently authenticated account is the owner or admin user.  
 name         Name of the project. If NULL (default), project is given a default name similar to that created by ONA for forms published without a project  
 public        Logical. Should the project be public? Default to TRUE.

**Value**

Invisible. Project registered and created in ONA account

**Examples**

```
ona_project_register()
```

---

```
ona_project_share      Share projects with user(s)
```

---

**Description**

Share projects with user(s)

**Usage**

```
ona_project_share(
  base_url = "https://api.ona.io",
  auth_mode = c("token", "password"),
  project_id = NULL,
  username = NULL,
  role = c("readonly", "dataentry", "editor", "manager"),
  email = NULL
)
```

**Arguments**

base_url	ONA URL. Default is <a href="https://api.ona.io">https://api.ona.io</a> .
auth_mode	Password or token? Default is token.
project_id	Project identifier.
username	A character value or vector of username/s of user/s to share a form with.
role	A character value for the role the user/s will have on the project. This can be <i>*readonly*</i> , <i>*dataentry*</i> , <i>*editor*</i> , or <i>*manager*</i> .
email	Email message to send to user/s to whom project has been shared with. If NULL (default), user/s will not be notified.

**Value**

Invisible. Project shared with specified users with specified roles. A tibble of project information.

**Examples**

```
ona_project_share(
  project_id = 12345,
  username = "validtrial",
  role = "readonly"
)
```

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