

# Package: rockx (via r-universe)

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**Title** Easily Import Data from Your 'ODK-X Sync Endpoint'

**Version** 0.1.0

**Description** Provides helper functions for authenticating and retrieving data from your 'ODK-X Sync Endpoint'. This is an early release intended for testing and feedback.

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**Depends** R (>= 4.2.0)

**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Suggests** knitr, rmarkdown, tidyverse, magrittr, testthat (>= 3.0.0)

**Config/testthat/edition** 3

**VignetteBuilder** knitr

**Imports** dplyr, httr, jsonlite, purrr, tidyr, rlang

**NeedsCompilation** no

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**Config/pak/sysreqs** libicu-dev libssl-dev

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download\_attachments    *Download attachments for table rows*

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### Description

This function downloads attachments for the specified table rows and saves them in a structured directory. Each row with attachments will have a dedicated folder under the table-specific subdirectory.

### Usage

```
download_attachments(  
  rows,  
  table_meta,  
  save_to_directory,  
  skip_if_instance_folder_exists = FALSE  
)
```

### Arguments

`rows`                    A tibble or data frame containing the table rows to download attachments for.

`table_meta`            List. Metadata for the table, as returned by `get_table_metadata(table_name)`.

`save_to_directory`    String. The parent directory where attachments will be saved. A subdirectory with the name of the table will be created, and each row with attachments will have its own subfolder under this directory.

`skip_if_instance_folder_exists`    Logical. If TRUE, rows with an existing instance folder will be skipped to avoid re-downloading attachments. Defaults to FALSE.

### Value

Invisibly returns NULL. Downloads the attachments as a side effect.

---

get\_all\_rows                    *Retrieve all rows from a table*

---

### Description

This function retrieves all rows for a given table from the ODK-X Sync Endpoint and tries to parse known types based on the table's schema definition.

### Usage

```
get_all_rows(table_name)
```

**Arguments**

table\_name      String. The name of the table from which to retrieve rows.

**Value**

A tibble containing all rows.

---

get\_credentials      *Retrieve API Credentials*

---

**Description**

This function fetches the stored API credentials from environment variables.

**Usage**

```
get_credentials()
```

**Value**

A list containing username, password, and server\_url.

---

get\_tables      *Retrieve Tables from ODK-X Sync Endpoint*

---

**Description**

This function retrieves the list of tables from the ODK-X Sync Endpoint by making a paginated GET request to (<server\_url>)/odktables/default/tables. It uses BASIC authentication with the credentials stored via rockx::set\_username\_and\_password().

**Usage**

```
get_tables()
```

**Value**

A tibble containing the list of found tables.

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get_table_metadata	<i>Get Table Metadata</i>
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**Description**

Retrieves metadata for a given table from the ODK-X Sync Endpoint.

**Usage**

```
get_table_metadata(table_name)
```

**Arguments**

table\_name      A character string specifying the table name.

**Details**

This function calls the ODK-X Sync Endpoint to fetch metadata about a specific table. If the dataUri field is missing in the response, an error is thrown.

**Value**

A list containing table metadata.

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has_access	<i>Verifies the user has sufficient permissions to download data</i>
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**Description**

Before calling this function, first set username, password, and host with: `rockx::set_username_and_password()`.

**Usage**

```
has_access()
```

**Value**

TRUE or FALSE

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`set_username_and_password`*Set Username, Password, and Server URL for API Authentication*

---

**Description**

This function sets the environment variables ROCKX\_USERNAME, ROCKX\_PASSWORD, and ROCKX\_SERVER\_URL for authentication and specifying the ODK-X Sync Endpoint.

**Usage**

```
set_username_and_password(username, password, server_url)
```

**Arguments**

username	A character string containing the API username.
password	A character string containing the API password.
server_url	A character string containing the URL of the ODK-X sync endpoint (e.g., "https://my.sync-endpoint.com").

**Value**

A message confirming that credentials and server URL have been set.

**Examples**

```
rockx::set_username_and_password("my_user", "my_password", "https://my.sync-endpoint.com")
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