

Package ‘valdr’

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Title Access and Analyse 'VALD' Data via Our External 'APIs'

Version 4.0.0

Description Provides helper functions and wrappers to simplify authentication, data retrieval, and result processing from the 'VALD' 'APIs'.

Designed to streamline integration for analysts and researchers working with 'VALD's external 'APIs'.

For further documentation on integrating with 'VALD' 'APIs', see:

<<https://support.vald.com/hc/en-au/articles/23415335574553-How-to-integrate-with-VALD-APIs>>.

For a step-by-step guide to using this package, see:

<<https://support.vald.com/hc/en-au/articles/48730811824281-A-guide-to-using-the-valdr-R-package>>.

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Author Kieran Harrison [aut, cre],
VALD Support [ctb],
VALD [cph] (Copyright holder)

Maintainer Kieran Harrison <k.harrison@vald.com>

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.retry_key_get	<i>Internal helper function to retry reading a key from the system keyring. This handles potential intermittent delays after writing to the keyring.</i>
----------------	--

Description

Internal helper function to retry reading a key from the system keyring. This handles potential intermittent delays after writing to the keyring.

Usage

```
.retry_key_get(service, username, retries = 5, delay = 0.5)
```

Arguments

service	Character. Keyring service name (e.g., "valdr_credentials").
username	Character. Keyring username (e.g., "client_id").
retries	Integer. Number of retry attempts before giving up (default 5).
delay	Numeric. Delay in seconds between retry attempts (default 0.5).

Value

Character scalar. The retrieved credential value. Will throw an error if unable to retrieve a valid, non-blank value after all retries.

export_forcedecks_csv	<i>Export ForceDecks data for dashboards</i>
-----------------------	--

Description

Queries the ForceDecks API, joins trials/tests/profiles/result definitions, and writes a CSV file to the user's Downloads/VALD_Exports folder (by default).

Usage

```
export_forcedecks_csv(export_dir = NULL)
```

Arguments

export_dir Optional directory to write the CSV to. If NULL, uses ~/Downloads/VALD_Exports.

Details

This export is ForceDecks-specific and uses the stored start date from get_start_date(), which is automatically updated by the ForceDecks data retrieval functions.

Value

Invisibly, the full path to the created CSV file.

get_config	<i>Retrieve stored VALD configuration</i>
------------	---

Description

Returns the configuration list previously set by set_credentials(). If credentials have not been set, this function will raise an error.

Usage

```
get_config(safe = TRUE, quiet = FALSE)
```

Arguments

safe Logical; if TRUE (default), sensitive values are redacted in printed output (only when not quiet).
quiet Logical; if TRUE, suppresses printed output (default FALSE).

Value

A named list containing the stored VALD configuration values for the current user. Sensitive values are redacted when printed with `safe = TRUE`. Returned invisibly.

get_dynamo_data	<i>Get DynaMo test data</i>
-----------------	-----------------------------

Description

Wrapper around `get_dynamo_tests()` that also calls `get_profiles()` to retrieve Profiles information with DynaMo tests and their repeated result resources.

Usage

```
get_dynamo_data(start_date = NULL)
```

Arguments

`start_date` (Optional) A UTC ISO 8601 datetime string (e.g. "2025-06-25T00:00:00Z") used to filter results by modification time. If omitted, the stored start date is used.

Details

After a successful non-empty test retrieval, the latest `modifiedDateUtc` is saved as the package start date.

Value

A named list containing the profiles, tests, `repetition_type_summaries`, `repetitions`, `asymmetries`, and `ratios` data frames. The DynaMo tables are linked by test ID. Returned invisibly.

Examples

```
## Not run:
# Fetch recent DynaMo tests along with Profiles information
data <- get_dynamo_data()
View(data$profiles)
View(data$tests)
View(data$repetition_type_summaries)
View(data$repetitions)
View(data$asymmetries)
View(data$ratios)

## End(Not run)
```

`get_dynamo_tests_only` *Get only Dynamo test data*

Description

Wrapper around `get_dynamo_tests()` to retrieve Dynamo test data.

Usage

```
get_dynamo_tests_only(start_date = NULL)
```

Arguments

`start_date` (Optional) A UTC ISO 8601 datetime string (e.g. "2025-06-25T00:00:00Z") used to filter results by modification time. If omitted, the stored start date is used.

Details

After a successful non-empty retrieval, the latest `modifiedDateUtc` is saved as the package start date.

Value

A data frame with one row per Dynamo test. Repeated result resources are available from `get_dynamo_data()`. Returned invisibly.

Examples

```
## Not run:
tests <- get_dynamo_tests_only()
View(tests)

## End(Not run)
```

`get_dynamo_test_by_id` *Get a single Dynamo test by ID*

Description

Wrapper around `get_dynamo_tests_by_id()` to retrieve a specific Dynamo test.

Usage

```
get_dynamo_test_by_id(test_id)
```

Arguments

`test_id` (Required) The unique GUID for the DynaMo test to retrieve.

Value

A named list containing the tests, repetition_type_summaries, repetitions, asymmetries, and ratios data frames for the requested test. Returned invisibly.

Examples

```
## Not run:
test_data <- get_dynamo_test_by_id("abcd1234-ab12-cd34-ef56-abcdef123456")
View(test_data$tests)
View(test_data$repetitions)

## End(Not run)
```

<code>get_forcedecks_data</code>	<i>Run full initial data fetch from the VALD ForceDecks API and External Profiles API</i>
----------------------------------	---

Description

This function is intended for first-time use or a full refresh of all datasets. It retrieves profiles, result definitions, tests (from a specified start date), and trials.

Usage

```
get_forcedecks_data(start_date = NULL, include_attributes = FALSE)
```

Arguments

`start_date` In ISO 8601 UTC format (e.g., "2025-06-25T00:00:00Z") indicating the start of the test retrieval window.

`include_attributes` Logical; if TRUE, the returned list will include an additional data frame `test_attributes` containing a long-format mapping of test attributes. Defaults to FALSE.

Value

A named list with data frames: profiles, result_definitions, tests, and trials. If `include_attributes = TRUE`, the list also contains `test_attributes`.

Examples

```
## Not run:
# Fetch all data (profiles, results, tests, trials)
data <- get_forcedecks_data()
View(data$profiles)

# Fetch all data including test attributes mapping
data_with_attrs <- get_forcedecks_data(include_attributes = TRUE)
View(data_with_attrs$test_attributes)

## End(Not run)
```

```
get_forcedecks_result_definitions_only
```

Get only ForceDecks result definitions

Description

Wrapper around `get_forcedecks_result_definitions()` to refresh result definitions. Typically called infrequently unless definitions are known to have changed.

Usage

```
get_forcedecks_result_definitions_only()
```

Value

A data frame where each row corresponds to a ForceDecks result definition retrieved from the API. Returned invisibly.

Examples

```
## Not run:
# Fetch result definitions
results <- get_forcedecks_result_definitions_only()
View(results)

## End(Not run)
```

`get_forcedecks_tests_only`*Get only ForceDecks test data*

Description

Wrapper around `get_forcedecks_tests()` if the user only wants test-level data without trials.

Usage

```
get_forcedecks_tests_only(start_date = NULL, include_attributes = FALSE)
```

Arguments

`start_date` In ISO 8601 UTC format (e.g., "2025-06-25T00:00:00Z") indicating the start of the test retrieval window.

`include_attributes`

Logical; if TRUE, returns a named list with `tests` (the test data frame) and `attributes` (the long-format attributes mapping table). If FALSE (default), returns only the tests data frame.

Value

Either a data frame containing ForceDecks test-level data, or a list with components `tests` and `attributes` if `include_attributes = TRUE`.

Examples

```
## Not run:
# Fetch only tests
tests <- get_forcedecks_tests_only()

# Fetch tests plus attributes mapping
res <- get_forcedecks_tests_only(include_attributes = TRUE)
tests <- res$tests
attrs <- res$attributes

## End(Not run)
```

`get_forcedecks_tests_trials`*Run a standard session to get new ForceDecks tests and trials only*

Description

Use this when profiles and result definitions have already been downloaded previously.

Usage

```
get_forcedecks_tests_trials(start_date = NULL, include_attributes = FALSE)
```

Arguments

<code>start_date</code>	In ISO 8601 UTC format (e.g., "2025-06-25T00:00:00Z") indicating the start of the test retrieval window.
<code>include_attributes</code>	Logical; if TRUE, the returned list will include an additional data frame <code>test_attributes</code> containing a long-format mapping of test attributes. Defaults to FALSE.

Value

A named list with data frames: `tests` and `trials`. If `include_attributes = TRUE`, the list also contains `test_attributes`.

Examples

```
## Not run:
# Fetch tests and trials only
session <- get_forcedecks_tests_trials()
View(session$tests)
View(session$trials)

# Fetch tests, trials, and test attributes mapping
session2 <- get_forcedecks_tests_trials(include_attributes = TRUE)
View(session2$test_attributes)

## End(Not run)
```

`get_forcedecks_trials_only`*Get trials for an existing test data frame*

Description

Useful for re-running or extending analysis without re-downloading tests.

Usage

```
get_forcedecks_trials_only(tests_df)
```

Arguments

`tests_df` A data frame of tests (from `get_forcedecks_tests()` or a previous session)

Value

A data frame containing trial-level results corresponding to the input tests.

Examples

```
## Not run:  
# Fetch trials based on existing tests  
tests <- get_forcedecks_tests_only()  
trials <- get_forcedecks_trials_only(tests)  
View(trials)  
  
## End(Not run)
```

`get_forceframe_data` *Get ForceFrame test data*

Description

Wrapper around `get_forceframe_tests()` that also calls `get_profiles()` to ensure profile data is available before retrieving ForceFrame test data. Intended for use when you want to fetch Profiles information as well as ForceFrame tests from the API.

Usage

```
get_forceframe_data(start_date = NULL, profile_id = NULL)
```

Arguments

start_date	(Optional) A UTC ISO 8601 datetime string (e.g. "2025-06-25T00:00:00Z") used to filter results by modification time. Input as a string.
profile_id	(Optional) A specific profile ID to filter results for a single athlete. Input as a string.

Value

A data frame containing Profiles information and a data frame containing ForceFrame test data.

Examples

```
## Not run:
# Fetch all recent ForceFrame tests along with Profiles information
tests <- get_forceframe_data()
View(tests)

# Fetch ForceFrame tests for a specific profile
get_forceframe_data(profile_id = "abc123")

## End(Not run)
```

`get_forceframe_repetitions_by_id`*Get ForceFrame repetitions for a single test by ID*

Description

Wrapper around `get_forceframe_reps_by_id()` to retrieve repetition-level ForceFrame data for a specific test.

Usage

```
get_forceframe_repetitions_by_id(test_id)
```

Arguments

test_id	(Required) The unique test ID for the ForceFrame test you want to retrieve repetitions for.
---------	---

Value

A data frame with one row per repetition corresponding to the requested ForceFrame test.

Examples

```
## Not run:
# Fetch ForceFrame repetitions by test ID
reps <- get_forceframe_repetitions_by_id("abcd1234-ab12-cd34-ef56-abcdef123456")
View(reps)

## End(Not run)
```

`get_forceframe_tests_only`*Get only ForceFrame test data*

Description

Wrapper around `get_forceframe_tests()` to retrieve ForceFrame test data. Intended for use when you want to fetch multiple ForceFrame tests.

Usage

```
get_forceframe_tests_only(start_date = NULL, profile_id = NULL)
```

Arguments

<code>start_date</code>	(Optional) A UTC ISO 8601 datetime string (e.g. "2025-06-25T00:00:00Z") used to filter results by modification time. Input as a string.
<code>profile_id</code>	(Optional) A specific profile ID to filter results for a single athlete. Input as a string.

Value

A data frame where each row corresponds to a ForceFrame test retrieved from the API. Returned invisibly.

Examples

```
## Not run:
# Fetch all recent ForceFrame tests
tests <- get_forceframe_tests_only()
View(tests)

# Fetch ForceFrame tests for a specific profile
get_forceframe_tests_only(profile_id = "abcd1234-ab12-cd34-ef56-abcdef123456")

## End(Not run)
```

`get_forceframe_test_by_id`*Get a single ForceFrame test by ID*

Description

Wrapper around `get_forceframe_tests_by_id()` to retrieve a specific ForceFrame test. Intended for use when you want to fetch a single ForceFrame test record.

Usage

```
get_forceframe_test_by_id(test_id)
```

Arguments

`test_id` (Required) The unique test ID for the ForceFrame test you want to retrieve.

Value

A data frame with one row corresponding to the requested ForceFrame test.

Examples

```
## Not run:
# Fetch a ForceFrame test by ID
test <- get_forceframe_test_by_id("abcd1234-ab12-cd34-ef56-abcdef123456")
View(test)

## End(Not run)
```

`get_humantrak_data`*Get HumanTrak data*

Description

Retrieves Profiles information, relational HumanTrak test-result tables, and HumanTrak test-type metric definitions. Repetition data remains an explicit by-ID operation.

Usage

```
get_humantrak_data(start_date = NULL)
```

Arguments

`start_date` (Optional) A UTC ISO 8601 datetime string (e.g. "2025-06-25T00:00:00Z") used to filter test results by modification time. If omitted, the stored start date is used.

Details

After a successful non-empty test retrieval, the latest modifiedDateUtc is saved as the package start date.

Value

A named list containing the profiles, tests, repetition_counts, metric_groups, summary_measurements, and test_type_metrics data frames. HumanTrak result tables are linked by test ID and metric-group code. Returned invisibly.

Examples

```
## Not run:
data <- get_humantrak_data()
View(data$profiles)
View(data$tests)
View(data$repetition_counts)
View(data$metric_groups)
View(data$summary_measurements)
View(data$test_type_metrics)

## End(Not run)
```

```
get_humantrak_repetitions_by_id
```

Get HumanTrak repetitions for a single test by ID

Description

Retrieves repetition-level HumanTrak metrics for a supplied test.

Usage

```
get_humantrak_repetitions_by_id(test_id, profile_id)
```

Arguments

test_id	(Required) The unique GUID for the HumanTrak test.
profile_id	(Required) The unique GUID for the profile associated with the HumanTrak test.

Value

A data frame with one row per repetition metric, including repetition context and sided and unsided value columns. Returned invisibly.

Examples

```
## Not run:
reps <- get_humantrak_repetitions_by_id(
  test_id = "abcd1234-ab12-cd34-ef56-abcdef123456",
  profile_id = "12345678-ab12-cd34-ef56-abcdef123456"
)
View(reps)

## End(Not run)
```

`get_humantrak_tests_only`*Get only HumanTrak test data*

Description

Wrapper around `get_humantrak_tests()` to retrieve HumanTrak test data.

Usage

```
get_humantrak_tests_only(start_date = NULL)
```

Arguments

<code>start_date</code>	(Optional) A UTC ISO 8601 datetime string (e.g. "2025-06-25T00:00:00Z") used to filter results by modification time. If omitted, the stored start date is used.
-------------------------	---

Details

After a successful non-empty retrieval, the latest `modifiedDateUtc` is saved as the package start date.

Value

A data frame with one row per HumanTrak test. Repeated result resources are available from `get_humantrak_data()`. Returned invisibly.

Examples

```
## Not run:
tests <- get_humantrak_tests_only()
View(tests)

## End(Not run)
```

get_humantrak_test_type_metrics_only	<i>Get HumanTrak test-type metric definitions</i>
--------------------------------------	---

Description

Wrapper around get_humantrak_test_type_metrics() to retrieve and flatten HumanTrak test-type and metric-definition metadata.

Usage

```
get_humantrak_test_type_metrics_only()
```

Value

A data frame with one row per repetition metric type, including its parent test-type and metric-group details. Returned invisibly.

Examples

```
## Not run:
metrics <- get_humantrak_test_type_metrics_only()
View(metrics)

## End(Not run)
```

get_nordbord_data	<i>Get NordBord test data</i>
-------------------	-------------------------------

Description

Wrapper around get_nordbord_tests() that also calls get_profiles() to ensure profile data is available before retrieving NordBord test data. Intended for use when you want to fetch Profiles information as well as NordBord tests from the API.

Usage

```
get_nordbord_data(start_date = NULL, profile_id = NULL)
```

Arguments

- | | |
|------------|---|
| start_date | (Optional) A UTC ISO 8601 datetime string (e.g. "2025-06-25T00:00:00Z") used to filter results by modification time. Input as a string. |
| profile_id | (Optional) A specific profile ID to filter results for a single athlete. Input as a string. |

Value

A data frame containing Profiles information and a data frame containing NordBord test data.

Examples

```
## Not run:
# Fetch all recent NordBord tests along with Profiles information
tests <- get_nordbord_data()
View(tests)

# Fetch NordBord tests for a specific profile
get_nordbord_data(profile_id = "abcd1234-ab12-cd34-ef56-abcdef123456")

## End(Not run)
```

```
get_nordbord_tests_only
```

Get only NordBord test data

Description

Wrapper around get_nordbord_tests() to retrieve NordBord test data. Intended for use when you want to fetch multiple NordBord tests.

Usage

```
get_nordbord_tests_only(start_date = NULL, profile_id = NULL)
```

Arguments

start_date	(Optional) A UTC ISO 8601 datetime string (e.g. "2025-06-25T00:00:00Z") used to filter results by modification time. Input as a string.
profile_id	(Optional) A specific profile ID to filter results for a single athlete. Input as a string.

Value

A data frame where each row corresponds to a NordBord test retrieved from the API.

Examples

```
## Not run:
# Fetch all recent NordBord tests
tests <- get_nordbord_tests_only()
View(tests)

# Fetch NordBord tests for a specific profile
get_nordbord_tests_only(profile_id = "abcd1234-ab12-cd34-ef56-abcdef123456")

## End(Not run)
```

```
get_nordbord_test_by_id
```

Get a single NordBord test by ID

Description

Wrapper around `get_nordbord_tests_by_id()` to retrieve a specific NordBord test. Intended for use when you want to fetch a single NordBord test record.

Usage

```
get_nordbord_test_by_id(test_id)
```

Arguments

`test_id` (Required) The unique test ID for the NordBord test you want to retrieve.

Value

A data frame with one row corresponding to the requested NordBord test.

Examples

```
## Not run:
# Fetch a NordBord test by ID
test <- get_nordbord_test_by_id("abcd1234-ab12-cd34-ef56-abcdef123456")
View(test)

## End(Not run)
```

```
get_profiles_groups_categories_mapping
```

*Get profile-group-category mappings #' Wrapper around
get_profiles_groups_categories() to retrieve the long-format
mapping of profiles to their groups and categories.*

Description

Intended for use when you want a relational view of profile metadata rather than the one-row-per-profile structure returned by `get_profiles()`.

Usage

```
get_profiles_groups_categories_mapping()
```

Value

A data frame with one row per profile-group-category combination, containing the columns:

- profileId
- categoryId
- categoryName
- groupId
- groupName

Returned invisibly.

Examples

```
## Not run:  
# Fetch profile-group-category mappings for the current tenant  
mappings <- get_profiles_groups_categories_mapping()  
head(mappings)  
  
## End(Not run)
```

get_profiles_only	<i>Get only VALD profiles</i>
-------------------	-------------------------------

Description

Wrapper around `get_profiles()` to retrieve VALD profiles. Useful if profile data needs to be refreshed independently.

Usage

```
get_profiles_only()
```

Value

A data frame containing VALD profiles information for the stored `tenant_id`.

Examples

```
## Not run:  
# Fetch profiles  
profiles <- get_profiles_only()  
View(profiles)  
  
## End(Not run)
```

get_profile_by_id	<i>Get a single VALD profile by ID</i>
-------------------	--

Description

Retrieves the full details available for one profile from the External Profiles API, including additional properties not returned by the base profile collection endpoint.

Usage

```
get_profile_by_id(profile_id)
```

Arguments

profile_id (Required) The unique GUID for the profile to retrieve.

Value

A one-row data frame containing the detailed profile fields. The groupIds collection is retained as a character-vector list-column. Returns an empty data frame if the profile is not found. Returned invisibly.

Examples

```
## Not run:
profile <- get_profile_by_id(
  "4c5e53c7-5755-470f-a754-004713546d5f"
)
View(profile)

## End(Not run)
```

get_smartspeed_data	<i>Get SmartSpeed test data</i>
---------------------	---------------------------------

Description

Wrapper around get_smartspeed_tests() that also calls get_profiles() to ensure profile data is available before retrieving SmartSpeed test data. Intended for use when you want to fetch Profiles information as well as SmartSpeed tests from the API.

Usage

```
get_smartspeed_data(start_date = NULL)
```

Arguments

start_date (Optional) A UTC ISO 8601 datetime string (e.g. "2025-06-25T00:00:00Z") used to filter results by modification time. Input as a string.

Value

A named list containing Profiles information and SmartSpeed test data.

Examples

```
## Not run:  
# Fetch all recent SmartSpeed tests along with Profiles information  
data <- get_smartspeed_data()  
View(data$profiles)  
View(data$tests)  
  
## End(Not run)
```

`get_smartspeed_tests_only`*Get only SmartSpeed test data*

Description

Wrapper around `get_smartspeed_tests()` to retrieve SmartSpeed test data. Intended for use when you want to fetch multiple SmartSpeed tests.

Usage

```
get_smartspeed_tests_only(start_date = NULL)
```

Arguments

start_date (Optional) A UTC ISO 8601 datetime string (e.g. "2025-06-25T00:00:00Z") used to filter results by modification time. Input as a string.

Value

A data frame where each row corresponds to a SmartSpeed test summary retrieved from the API. Returned invisibly.

Examples

```
## Not run:
# Fetch all recent SmartSpeed tests
tests <- get_smartspeed_tests_only()
View(tests)

# Fetch SmartSpeed tests using a one-off start date override
tests <- get_smartspeed_tests_only(start_date = "2025-07-01T00:00:00Z")
View(tests)

## End(Not run)
```

get_start_date	<i>Retrieve the start date from config</i>
----------------	--

Description

Returns the saved start date string from the config file.

Usage

```
get_start_date()
```

Value

A character scalar containing the start date string in ISO 8601 format previously saved to configuration.

set_credentials	<i>Set and Save VALD API Credentials</i>
-----------------	--

Description

Securely stores VALD API credentials in the system keyring and saves non-sensitive configuration to a JSON config file in the user's home directory for reuse across sessions.

Usage

```
set_credentials(client_id, client_secret, tenant_id, region)
```

Arguments

client_id	Your VALD API Client ID (stored securely in keyring)
client_secret	Your VALD API Client Secret (stored securely in keyring)
tenant_id	Your VALD Tenant ID
region	The VALD data region code (e.g., "aue", "use", "euw")

Details

Sensitive values (client ID and secret) are never written to disk and are retrieved securely from the keyring when needed.

Value

Invisibly returns TRUE if credentials and configuration were saved successfully.

set_start_date	<i>Set and persist the start date</i>
----------------	---------------------------------------

Description

Saves the provided ISO 8601 start date to the config file.

Usage

set_start_date(start_date)

Arguments

start_date Date in ISO 8601 UTC format, e.g., "2025-06-25T00:00:00Z"

Value

A logical scalar (TRUE), returned invisibly, indicating that the start date was saved and persisted successfully.

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