

# Package ‘rgoogleads’

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**Title** Loading Data from 'Google Ads API'

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**Description** Interface for loading data from 'Google Ads API',  
see <<https://developers.google.com/google-ads/api/docs/start>>.  
Package provide function for authorization and loading reports.

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<https://github.com/selesnow/rgoogleads>

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rgoogleads-package      *Loading Data From 'Google Ads API'*

---

## Description

Interface for loading data from 'Google Ads API', see <https://developers.google.com/google-ads/api/docs/start>. Package provide function for authorization and loading reports.

Capabilities of rgoogleads:

- Authorization in the Google Ads API
- Loading a list of top-level accounts
- Loading the entire hierarchy of accounts from manager accounts
- Loading list of Google Ads client account objects: campaigns, ad groups, ads, etc.

- Loading statistics from Google Ads client account
- Loading resource metadata, resource fields, segments and metrics
- Loading forecast and historical metrics from Keyword Planning.

### Author(s)

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### See Also

- [YouTube lessons playlist](#)
- [Official Google Ads API documentation](#)
- [Google Ads Query Builder](#)
- [rgoogleads home page](#)

### Examples

```
## Not run:
library(rgoogleads)

# set own oauth app
gads_auth_configure(path = 'C:/auth/app.json')
# set your developer token if needed, or use default developer token
gads_auth(email = 'me@gmail.com', developer_token = "own developer token")

# get list of accessible accounts
my_accounts <- gads_get_accessible_customers()

# set manager account id
gads_set_login_customer_id('xxx-xxx-xxxx')

# set client account id
gads_set_customer_id('xxx-xxx-xxxx')

# load report data
ad_group_report <- gads_get_report(
  resource = "ad_group",
  fields = c("ad_group.campaign",
            "ad_group.id",
            "ad_group.name",
            "ad_group.status",
            "metrics.clicks",
            "metrics.cost_micros"),
  date_from = "2021-06-10",
  date_to = "2021-06-17",
  where = "ad_group.status = 'ENABLED'",
  order_by = c("metrics.clicks DESC", "metrics.cost_micros")
)

## End(Not run)
```

gads\_auth

*Authorization in Google Ads API***Description**

Authorize rgoogleads to view and manage your Google Ads Account. This function is a wrapper around `gargle::token_fetch()`.

By default, you are directed to a web browser, asked to sign in to your Google account, and to grant rgoogleads permission to operate on your behalf with Google Ads. By default, with your permission, these user credentials are cached in a folder below your home directory, from where they can be automatically refreshed, as necessary. Storage at the user level means the same token can be used across multiple projects and tokens are less likely to be synced to the cloud by accident.

**Usage**

```
gads_auth(
  email = gargle::gargle_oauth_email(),
  path = NULL,
  cache = gargle::gargle_oauth_cache(),
  use_oob = gargle::gargle_oob_default(),
  developer_token = getOption("gads.developer.token"),
  token = NULL
)
```

**Arguments**

email	Optional. Allows user to target a specific Google identity.
path	Path to JSON file with identifying the service account
cache	Specifies the OAuth token cache.
use_oob	Whether to prefer "out of band" authentication.
developer_token	Your Google Ads Developer Token.
token	A token with class <code>Token2.0</code> or an object of

**Details**

Most users, most of the time, do not need to call `gads_auth()` explicitly – it is triggered by the first action that requires authorization. Even when called, the default arguments often suffice.

However, when necessary, `gads_auth()` allows the user to explicitly:

- Declare which Google identity to use, via an email specification.
- Use a service account token or workload identity federation via path.
- Bring your own token.
- Customize scopes.

- Use a non-default cache folder or turn caching off.
- Explicitly request out-of-band (OOB) auth via `use_oob`.

If you are interacting with R within a browser (applies to RStudio Server, Posit Workbench, Posit Cloud, and Google Colaboratory), you need OOB auth or the pseudo-OOB variant. If this does not happen automatically, you can request it explicitly with `use_oob = TRUE` or, more persistently, by setting an option via `options(gargle_oob_default = TRUE)`.

The choice between conventional OOB or pseudo-OOB auth is determined by the type of OAuth client. If the client is of the "installed" type, `use_oob = TRUE` results in conventional OOB auth. If the client is of the "web" type, `use_oob = TRUE` results in pseudo-OOB auth. Packages that provide a built-in OAuth client can usually detect which type of client to use. But if you need to set this explicitly, use the "gargle\_oauth\_client\_type" option:

```
options(gargle_oauth_client_type = "web")      # pseudo-OOB
# or, alternatively
options(gargle_oauth_client_type = "installed") # conventional OOB
```

For details on the many ways to find a token, see [gargle::token\\_fetch\(\)](#). For deeper control over auth, use [gads\\_auth\\_configure\(\)](#) to bring your own OAuth client or API key. To learn more about gargle options, see [gargle::gargle\\_options](#).

## Value

[Token2.0](#)

## See Also

Other auth functions: [gads\\_auth\\_configure\(\)](#), [gads\\_deauth\(\)](#)

## Examples

```
## Not run:
## load/refresh existing credentials, if available
## otherwise, go to browser for authentication and authorization
gads_auth()

## force use of a token associated with a specific email
gads_auth(email = "yourname@example.com")

## force a menu where you can choose from existing tokens or
## choose to get a new one
gads_auth(email = NA)

## -----
## use own developer token
gads_auth(
  email = "yourname@example.com",
  developer_token = "your developer token"
)
```

```
## -----  
## use own OAuth client app  
gads_auth_configure(  
  path = "path/to/your/oauth_client.json"  
)  
  
gads_auth(email = "yourname@example.com")  
  
## End(Not run)
```

---

gads\_auth\_configure    *Edit and view auth configuration*

---

## Description

These functions give more control over and visibility into the auth configuration than [gads\\_auth\(\)](#) does. [gads\\_auth\\_configure\(\)](#) lets the user specify their own:

- OAuth client, which is used when obtaining a user token.
- API key. If `rgoogleads` is de-authorized via [gads\\_deauth\(\)](#), all requests are sent with an API key in lieu of a token.

See the vignette("get-api-credentials", package = "gargle") for more. If the user does not configure these settings, internal defaults are used.

[gads\\_oauth\\_client\(\)](#) and [gads\\_api\\_key\(\)](#) retrieve the currently configured OAuth client and API key, respectively.

## Usage

```
gads_auth_configure(  
  client,  
  path,  
  api_key,  
  developer_token,  
  app = lifecycle::deprecated()  
)  
  
gads_auth_cache_path()  
  
gads_open_auth_cache_folder()  
  
gads_api_key()  
  
gads_developer_token()  
  
gads_oauth_app()
```

**Arguments**

client	A Google OAuth client, presumably constructed via <code>gargle::gargle_oauth_client_from_json()</code> . Note, however, that it is preferred to specify the client with JSON, using the path argument.
path	JSON downloaded from <a href="#">Google Cloud Console</a> , containing a client id and secret, in one of the forms supported for the <code>txt</code> argument of <code>jsonlite::fromJSON()</code> (typically, a file path or JSON string).
api_key	API key.
developer_token	Your Google Ads Developer Token.
app	<b>[Deprecated]</b> Replaced by the <code>client</code> argument.

**Value**

- `gads_auth_configure()`: An object of R6 class `gargle::AuthState`, invisibly.
- `gads_oauth_client()`: the current user-configured OAuth client.
- `gads_api_key()`: the current user-configured API key.

**See Also**

Other auth functions: [gads\\_auth\(\)](#), [gads\\_deauth\(\)](#)

**Examples**

```
## Not run:
# see and store the current user-configured OAuth app (probaby `NULL`)
(original_app <- gads_oauth_app())

# see and store the current user-configured API key (probaby `NULL`)
(original_api_key <- gads_api_key())

if (require(httr)) {
  # bring your own app via client id (aka key) and secret
  google_app <- httr::oauth_app(
    "my-awesome-google-api-wrapping-package",
    key = "YOUR_CLIENT_ID_GOES_HERE",
    secret = "YOUR_SECRET_GOES_HERE"
  )
  google_key <- "YOUR_API_KEY"
  gads_auth_configure(app = google_app, api_key = google_key)

  # confirm the changes
  gads_oauth_app()
  gads_api_key()

  # bring your own app via JSON downloaded from Google Developers Console
  # this file has the same structure as the JSON from Google
  gads_auth_configure(path = app_path)
```

```

# confirm the changes
gads_oauth_app()

# use own developer token
gads_auth_configure(developer_token = 'Your developer token')

}

# restore original auth config
gs4_auth_configure(app = original_app, api_key = original_api_key)

## End(Not run)

```

---

`gads_check_errors`      *Helper function for check api answer on error*

---

### Description

Helper function for check api answer on error

### Usage

```
gads_check_errors(out, client_id = NULL, verbose = FALSE, request_id)
```

### Arguments

<code>out</code>	API answer
<code>client_id</code>	Google Ads Customer id
<code>verbose</code>	Console output
<code>request_id</code>	Api request id

### Value

stop the function when api request failed

---

`gads_customer`      *Get all information about Google Ads Customer*

---

### Description

Get all information about Google Ads Customer

### Usage

```
gads_customer(customer_id = getOption("gads.customer.id"), verbose = TRUE)
```

**Arguments**

customer_id	Google Ads customer id
verbose	Processing log output into console

**Value**

Google Ads customer data

**See Also**

[Method: SearchStream documentation](#)

---

*gads\_customer\_id\_from\_env*

*Get customer id for error message*

---

**Description**

Get customer id for error message

**Usage**

`gads_customer_id_from_env()`

**Value**

only set customer id into env

---

*gads\_customer\_id\_to\_env*

*Write customer id for error message*

---

**Description**

Write customer id for error message

**Usage**

`gads_customer_id_to_env(customer_id)`

**Arguments**

customer_id	Your client customer id
-------------	-------------------------

**Value**

only set customer id into env

---

gads_deauth	<i>Suspend authorization</i>
-------------	------------------------------

---

**Description**

Put rgoogleads into a de-authorized state. Instead of sending a token, rgoogleads will send an API key. This can be used to access public resources for which no Google sign-in is required. This is handy for using rgoogleads in a non-interactive setting to make requests that do not require a token. It will prevent the attempt to obtain a token interactively in the browser. The user can configure their own API key via [gads\\_auth\\_configure\(\)](#) and retrieve that key via [gads\\_api\\_key\(\)](#). In the absence of a user-configured key, a built-in default key is used.

**Usage**

```
gads_deauth()
```

**Value**

only suspend authorization

**See Also**

Other auth functions: [gads\\_auth\(\)](#), [gads\\_auth\\_configure\(\)](#)

---

gads_fix_names	<i>function for fix names in get_report</i>
----------------	---

---

**Description**

function for fix names in get\_report

**Usage**

```
gads_fix_names(x)
```

**Arguments**

x                    character, column names

**Value**

new columns names

---

```
gads_get_accessible_customers
```

*Get all data of customers directly accessible by the user authenticating the call.*

---

**Description**

Get all data of customers directly accessible by the user authenticating the call.

**Usage**

```
gads_get_accessible_customers()
```

**Value**

List of your accessible accounts from top level

**Examples**

```
## Not run:  
accounts <- gads_get_accessible_customers()  
  
## End(Not run)
```

---

```
gads_get_account_hierarchy
```

*Get Google Ads Manager Account Hierarchy*

---

**Description**

Get Google Ads Manager Account Hierarchy

**Usage**

```
gads_get_account_hierarchy(  
  manager_customer_id = getOption("gads.login.customer.id"),  
  include_drafts = FALSE,  
  login_customer_id = getOption("gads.login.customer.id")  
)
```

**Arguments**

```
manager_customer_id  
  ID of the manager account whose hierarchy you want to get.  
include_drafts logical, Including drafts child account.  
login_customer_id  
  Ypor top-level manager account id.
```

**Value**

tibble with data of all the child accounts

**See Also**

[Get Account Hierarchy API documentation](#)

**Examples**

```
## Not run:
acc_hier <- gads_get_account_hierarchy(
  manager_customer_id = '111-111-1111',
  login_customer_id   = '000-000-0000')

## End(Not run)
```

---

gads\_get\_ads

*Get Ads Dictionary From Google Ads Client Account*

---

**Description**

Get Ads Dictionary From Google Ads Client Account

**Usage**

```
gads_get_ads(
  fields = c("ad_group_ad.ad.id", "ad_group_ad.ad.name",
    "ad_group_ad.ad.added_by_google_ads", "ad_group_ad.ad.app_ad.descriptions",
    "ad_group_ad.ad.app_ad.headlines", "ad_group_ad.ad.app_ad.html5_media_bundles",
    "ad_group_ad.ad.app_ad.images", "ad_group_ad.ad.app_ad.mandatory_ad_text",
    "ad_group_ad.ad.app_engagement_ad.videos", "ad_group_ad.ad.device_preference",
    "ad_group_ad.ad.display_upload_ad.display_upload_product_type",
    "ad_group_ad.ad.display_upload_ad.media_bundle", "ad_group_ad.ad.display_url",
    "ad_group_ad.ad.expanded_dynamic_search_ad.description",

    "ad_group_ad.ad.expanded_dynamic_search_ad.description2",
    "ad_group_ad.ad.expanded_text_ad.description",
    "ad_group_ad.ad.expanded_text_ad.description2",
    "ad_group_ad.ad.expanded_text_ad.headline_part1",
    "ad_group_ad.ad.expanded_text_ad.headline_part2",
    "ad_group_ad.ad.expanded_text_ad.headline_part3",
    "ad_group_ad.ad.expanded_text_ad.path1", "ad_group_ad.ad.expanded_text_ad.path2",
    "ad_group_ad.ad.final_url_suffix", "ad_group_ad.ad.final_urls",
    "ad_group_ad.ad.final_mobile_urls", "ad_group_ad.ad.hotel_ad",

    "ad_group_ad.ad.image_ad.image_url", "ad_group_ad.ad.image_ad.mime_type",
    "ad_group_ad.ad.image_ad.name", "ad_group_ad.ad.image_ad.pixel_height",
```

```

"ad_group_ad.ad.image_ad.pixel_width", "ad_group_ad.ad.image_ad.preview_image_url",
"ad_group_ad.ad.image_ad.preview_pixel_height",
"ad_group_ad.ad.image_ad.preview_pixel_width",
"ad_group_ad.ad.legacy_app_install_ad",
"ad_group_ad.ad.legacy_responsive_display_ad.accent_color",
"ad_group_ad.ad.legacy_responsive_display_ad.allow_flexible_color",
"ad_group_ad.ad.legacy_responsive_display_ad.business_name",

"ad_group_ad.ad.legacy_responsive_display_ad.description",
"ad_group_ad.ad.legacy_responsive_display_ad.call_to_action_text",
"ad_group_ad.ad.legacy_responsive_display_ad.format_setting",
"ad_group_ad.ad.legacy_responsive_display_ad.logo_image",
"ad_group_ad.ad.legacy_responsive_display_ad.long_headline",
"ad_group_ad.ad.legacy_responsive_display_ad.main_color",
"ad_group_ad.ad.legacy_responsive_display_ad.marketing_image",
"ad_group_ad.ad.legacy_responsive_display_ad.price_prefix",
"ad_group_ad.ad.legacy_responsive_display_ad.promo_text",

"ad_group_ad.ad.legacy_responsive_display_ad.short_headline",
"ad_group_ad.ad.legacy_responsive_display_ad.square_logo_image",
"ad_group_ad.ad.legacy_responsive_display_ad.square_marketing_image",
"ad_group_ad.ad.local_ad.call_to_actions", "ad_group_ad.ad.local_ad.descriptions",
"ad_group_ad.ad.local_ad.headlines", "ad_group_ad.ad.local_ad.logo_images",
"ad_group_ad.ad.local_ad.marketing_images", "ad_group_ad.ad.local_ad.path1",
"ad_group_ad.ad.local_ad.path2", "ad_group_ad.ad.resource_name",

"ad_group_ad.ad.responsive_display_ad.accent_color",
"ad_group_ad.ad.responsive_display_ad.allow_flexible_color",
"ad_group_ad.ad.responsive_display_ad.business_name",
"ad_group_ad.ad.responsive_display_ad.call_to_action_text",
"ad_group_ad.ad.responsive_display_ad.control_spec.enable_asset_enhancements",
"ad_group_ad.ad.responsive_display_ad.control_spec.enable_autogen_video",
"ad_group_ad.ad.responsive_display_ad.format_setting",
"ad_group_ad.ad.responsive_display_ad.headlines",
"ad_group_ad.ad.responsive_display_ad.long_headline",

"ad_group_ad.ad.responsive_display_ad.main_color",
"ad_group_ad.ad.responsive_display_ad.price_prefix",
"ad_group_ad.ad.responsive_display_ad.promo_text",
"ad_group_ad.ad.responsive_display_ad.square_marketing_images",
"customer.descriptive_name", "customer.id"),
where = NULL,
order_by = NULL,
limit = NULL,
parameters = NULL,
customer_id = getOption("gads.customer.id"),
login_customer_id = getOption("gads.login.customer.id"),
include_resource_name = FALSE,

```

```

    cl = NULL,
    verbose = TRUE
  )

```

### Arguments

fields	character vector, list of report fields, all reports have their own fields list, for example <a href="#">see field list of ads report</a> .
where	Filter, for example you can filter campaigns by status where = "campaign.status = 'ENABLED'".
order_by	Sorting, character vectors of fields and sorting directions, for example order_by = c("campaign.name DESC", "metrics.clicks").
limit	Maximum rows in report
parameters	Query parameters, for example parameters = "include_drafts=true".
customer_id	Google Ads client customer id, supports a single account id: "xxx-xxx-xxxx" or a vector of ids from the same Google Ads MCC: c("xxx-xxx-xxxx", "xxx-xxx-xxxx")
login_customer_id	Google Ads manager customer id
include_resource_name	Get resource names fields in report
cl	A cluster object created by <a href="#">makeCluster</a> , or an integer to indicate number of child-processes (integer values are ignored on Windows) for parallel evaluations (see Details on performance).
verbose	Console log output

### Value

tibble with ads dictionary

### See Also

[Google Ads Query Builder](#)

### Examples

```

## Not run:
# set client customer id
gads_set_login_customer_id('xxx-xxx-xxxx')

# set manager id if you work under MCC
gads_set_customer_id('xxx-xxx-xxxx')

# load ads list
myads <- gads_get_ads(
  fields = c("ad_group_ad.ad.id",
            "customer.descriptive_name"),
  where = 'ad_group_ad.status = "ENABLED"'
)

```

```
)

## End(Not run)
```

---

gads\_get\_ad\_groups      *Get Ad Groups Dictionary From Google Ads Client Account*

---

## Description

Get Ad Groups Dictionary From Google Ads Client Account

## Usage

```
gads_get_ad_groups(
  customer_id = getOption("gads.customer.id"),
  fields = c("ad_group.id", "ad_group.name", "ad_group.status",
    "ad_group.ad_rotation_mode", "ad_group.base_ad_group", "ad_group.campaign",
    "campaign.id", "ad_group.display_custom_bid_dimension",
    "ad_group.effective_target_cpa_source", "ad_group.effective_target_roas",
    "ad_group.effective_target_roas_source", "ad_group.final_url_suffix",
    "ad_group.target_roas", "ad_group.type", "ad_group.url_custom_parameters",
    "ad_group.tracking_url_template", "customer.id", "customer.descriptive_name"),
  where = NULL,
  order_by = NULL,
  limit = NULL,
  parameters = NULL,
  login_customer_id = getOption("gads.login.customer.id"),
  include_resource_name = FALSE,
  cl = NULL,
  verbose = TRUE
)
```

## Arguments

customer_id	Google Ads client customer id, supports a single account id: "xxx-xxx-xxxx" or a vector of ids from the same Google Ads MCC: c("xxx-xxx-xxxx", "xxx-xxx-xxxx")
fields	character vector, list of report fields, all report has own fields list, for example <a href="#">see field list of ad group report</a> .
where	Filter, for example you can filter campaigns by status where = "campaign.status = 'ENABLED'".
order_by	Sorting, character vectors of fields and sorting directions, for example order_by = c("campaign.name DESC", "metrics.clicks").
limit	Maximun rows in report
parameters	Query parameters, for example parameters = "include_drafts=true".

login_customer_id	Google Ads manager customer id
include_resource_name	Get resource names fields in report
cl	A cluster object created by <a href="#">makeCluster</a> , or an integer to indicate number of child-processes (integer values are ignored on Windows) for parallel evaluations (see <a href="#">Details on performance</a> ).
verbose	Console log output

**Value**

tibble with ad group dictionary

**See Also**

[Google Ads Query Builder](#)

**Examples**

```
## Not run:
# set client customer id
gads_set_login_customer_id('xxx-xxx-xxxx')

# set manager id if you work under MCC
gads_set_customer_id('xxx-xxx-xxxx')

# load ad groups list
adgroups <- gads_get_ad_groups(
  where = 'ad_group.status = "ENABLED"'
)

## End(Not run)
```

---

gads\_get\_ad\_group\_criteria

*Get Ad Group Criteria Dictionary From Google Ads Client Account*

---

**Description**

Get Ad Group Criteria Dictionary From Google Ads Client Account

**Usage**

```
gads_get_ad_group_criteria(
  customer_id = getOption("gads.customer.id"),
  fields = c("ad_group_criterion.ad_group", "ad_group_criterion.age_range.type",
    "ad_group_criterion.app_payment_model.type", "ad_group_criterion.approval_status",
```

```
"ad_group_criterion.bid_modifier",
"ad_group_criterion.combined_audience.combined_audience",
"ad_group_criterion.cpc_bid_micros", "ad_group_criterion.cpm_bid_micros",
"ad_group_criterion.cpv_bid_micros", "ad_group.id", "customer.id",
"customer.descriptive_name", "ad_group_criterion.criterion_id",
"ad_group_criterion.custom_affinity.custom_affinity",

"ad_group_criterion.custom_audience.custom_audience",
"ad_group_criterion.custom_intent.custom_intent",
"ad_group_criterion.disapproval_reasons", "ad_group_criterion.display_name",
"ad_group_criterion.effective_cpc_bid_micros",
"ad_group_criterion.effective_cpc_bid_source",
"ad_group_criterion.effective_cpm_bid_micros",
"ad_group_criterion.effective_cpm_bid_source",
"ad_group_criterion.effective_cpv_bid_micros",
"ad_group_criterion.effective_cpv_bid_source",
"ad_group_criterion.effective_percent_cpc_bid_micros",

"ad_group_criterion.effective_percent_cpc_bid_source",
"ad_group_criterion.final_mobile_urls", "ad_group_criterion.final_url_suffix",
"ad_group_criterion.final_urls", "ad_group_criterion.gender.type",
"ad_group_criterion.income_range.type", "ad_group_criterion.keyword.match_type",
"ad_group_criterion.keyword.text", "ad_group_criterion.labels",
"ad_group_criterion.listing_group.case_value.hotel_city.city_criterion",
"ad_group_criterion.listing_group.case_value.hotel_class.value",
"ad_group_criterion.listing_group.case_value.hotel_id.value",

"ad_group_criterion.listing_group.case_value.hotel_state.state_criterion",
"ad_group_criterion.listing_group.case_value.product_brand.value",
"ad_group_criterion.listing_group.case_value.product_channel.channel",
"ad_group_criterion.listing_group.case_value.product_condition.condition",
"ad_group_criterion.listing_group.case_value.product_custom_attribute.index",
"ad_group_criterion.listing_group.case_value.product_custom_attribute.value",
"ad_group_criterion.listing_group.case_value.product_type.level",

"ad_group_criterion.listing_group.case_value.product_item_id.value",
"ad_group_criterion.listing_group.case_value.product_type.value",
"ad_group_criterion.listing_group.parent_ad_group_criterion",
"ad_group_criterion.listing_group.type",
"ad_group_criterion.mobile_app_category.mobile_app_category_constant",
"ad_group_criterion.mobile_application.app_id",
"ad_group_criterion.mobile_application.name", "ad_group_criterion.negative",
"ad_group_criterion.parental_status.type",
"ad_group_criterion.percent_cpc_bid_micros",

"ad_group_criterion.placement.url",
"ad_group_criterion.position_estimates.estimated_add_cost_at_first_position_cpc",
"ad_group_criterion.position_estimates.estimated_add_clicks_at_first_position_cpc",
```

```

"ad_group_criterion.position_estimates.first_page_cpc_micros",
"ad_group_criterion.position_estimates.first_position_cpc_micros",
"ad_group_criterion.position_estimates.top_of_page_cpc_micros",
"ad_group_criterion.quality_info.creative_quality_score",
"ad_group_criterion.quality_info.post_click_quality_score",

"ad_group_criterion.quality_info.quality_score",
"ad_group_criterion.quality_info.search_predicted_ctr",
"ad_group_criterion.resource_name", "ad_group_criterion.status",
"ad_group_criterion.system_serving_status", "ad_group_criterion.topic.path",
"ad_group_criterion.topic.topic_constant",
"ad_group_criterion.tracking_url_template", "ad_group_criterion.type",
"ad_group_criterion.url_custom_parameters",
"ad_group_criterion.user_interest.user_interest_category",
"ad_group_criterion.user_list.user_list",

"ad_group_criterion.webpage.conditions",
"ad_group_criterion.webpage.coverage_percentage",
"ad_group_criterion.webpage.criterion_name",
"ad_group_criterion.webpage.sample.sample_urls",
"ad_group_criterion.youtube_channel.channel_id",
"ad_group_criterion.youtube_video.video_id"),
where = NULL,
order_by = NULL,
limit = NULL,
parameters = NULL,
login_customer_id = getOption("gads.login.customer.id"),
include_resource_name = FALSE,
cl = NULL,
verbose = TRUE
)

```

### Arguments

customer_id	Google Ads client customer id, supports a single account id: "xxx-xxx-xxxx" or a vector of ids from the same Google Ads MCC: c("xxx-xxx-xxxx", "xxx-xxx-xxxx")
fields	character vector, list of report fields, all report has own fields list, for example <a href="#">see field list of ad group report</a> .
where	Filter, for example you can filter campaigns by status where = "campaign.status = 'ENABLED' ".
order_by	Sorting, character vectors of fields and sorting directions, for example order_by = c("campaign.name DESC", "metrics.clicks").
limit	Maximun rows in report
parameters	Query parameters, for example parameters = "include_drafts=true".
login_customer_id	Google Ads manager customer id

include_resource_name	Get resource names fields in report
cl	A cluster object created by <a href="#">makeCluster</a> , or an integer to indicate number of child-processes (integer values are ignored on Windows) for parallel evaluations (see Details on performance).
verbose	Console log output

**Value**

tibble with ad group criterions dictionary

**See Also**

[Google Ads Query Builder](#)

**Examples**

```
## Not run:
# set client customer id
gads_set_login_customer_id('xxx-xxx-xxxx')

# set manager id if you work under MCC
gads_set_customer_id('xxx-xxx-xxxx')

# load ad groups keywords list
kw <- gads_get_ad_group_criteriaions()

## End(Not run)
```

---

`gads_get_campaigns`      *Get Campaigns Dictionary From Google Ads Client Account*

---

**Description**

Get Campaigns Dictionary From Google Ads Client Account

**Usage**

```
gads_get_campaigns(
  fields = c("campaign.id", "campaign.name", "campaign.accessible_bidding_strategy",
            "campaign.ad_serving_optimization_status", "campaign.advertising_channel_sub_type",
            "campaign.advertising_channel_type", "campaign.app_campaign_setting.app_id",
            "campaign.app_campaign_setting.app_store", "campaign.base_campaign",
            "campaign.bidding_strategy",
            "campaign.app_campaign_setting.bidding_strategy_goal_type",
            "campaign.campaign_budget", "campaign.bidding_strategy_type",
            "campaign.dynamic_search_ads_setting.language_code",
```

```

    "campaign.start_date_time", "campaign.end_date_time", "campaign.status",
    "campaign.manual_cpm", "campaign.manual_cpv",
    "campaign.maximize_conversion_value.target_roas",
    "campaign.maximize_conversions.target_cpa_micros",
    "campaign.network_settings.target_content_network",
    "campaign.network_settings.target_google_search",
    "campaign.network_settings.target_partner_search_network",
    "campaign.network_settings.target_search_network",
    "campaign.optimization_goal_setting.optimization_goal_types",
    "campaign.optimization_score",
    "campaign.payment_mode",
    "campaign.serving_status", "campaign.shopping_setting.campaign_priority",
    "campaign.target_roas.target_roas", "campaign.tracking_url_template",
    "customer.descriptive_name", "customer.id"),
where = NULL,
order_by = NULL,
limit = NULL,
parameters = NULL,
customer_id = getOption("gads.customer.id"),
login_customer_id = getOption("gads.login.customer.id"),
include_resource_name = FALSE,
cl = NULL,
verbose = TRUE
)

```

### Arguments

fields	character vector, list of report fields, all report has own fields list, for example <a href="#">see field list of campaigns report</a> .
where	Filter, for example you can filter campaigns by status where = "campaign.status = 'ENABLED'".
order_by	Sorting, character vectors of fields and sorting directions, for example order_by = c("campaign.name DESC", "metrics.clicks").
limit	Maximun rows in report
parameters	Query parameters, for example parameters = "include_drafts=true".
customer_id	Google Ads client customer id, supports a single account id: "xxx-xxx-xxxx" or a vector of ids from the same Google Ads MCC: c("xxx-xxx-xxxx", "xxx-xxx-xxxx")
login_customer_id	Google Ads manager customer id
include_resource_name	Get resource names fields in report
cl	A cluster object created by <a href="#">makeCluster</a> , or an integer to indicate number of child-processes (integer values are ignored on Windows) for parallel evaluations (see Details on performance).
verbose	Console log output

**Value**

tibble with campaigns dictionary

**See Also**

[Google Ads Query Builder](#)

**Examples**

```
## Not run:
# set client customer id
gads_set_login_customer_id('xxx-xxx-xxxx')

# set manager id if you work under MCC
gads_set_customer_id('xxx-xxx-xxxx')

# load campaign list
camps <- gads_get_campaigns(
  where = "campaign.status = 'ENABLED'"
)

## End(Not run)
```

---

`gads_get_fields`      *Get resource or field information.*

---

**Description**

Get resource or field information.

**Usage**

```
gads_get_fields(object_name)
```

**Arguments**

`object_name`      name of resource, resource's field, segmentation field or metric

**Value**

List of resource or field metadata

**See Also**

[Resource Metadata API documentation](#)

## Examples

```
## Not run:  
ad_group_info <- gads_get_fields("ad_group")  
  
## End(Not run)
```

---

`gads_get_geo_targets` *Download CSV of geo targets*

---

## Description

Download CSV of geo targets

## Usage

```
gads_get_geo_targets(  
  doc_page = "https://developers.google.com/google-ads/api/reference/data/geotargets",  
  file_link = "auto"  
)
```

## Arguments

<code>doc_page</code>	Link to Google Ads API Reference page
<code>file_link</code>	Link to csv file, default is 'auto'

## Value

data.frame with geo targets dictionary

## See Also

[Google Ads Geo Targets document page](#)

## Examples

```
## Not run:  
geo_dict <- gads_get_geo_targets()  
  
## End(Not run)
```

---

gads\_get\_keywords      *Get Keyword Dictionary From Google Ads Client Account*

---

## Description

Get Keyword Dictionary From Google Ads Client Account

## Usage

```
gads_get_keywords(
  customer_id = getOption("gads.customer.id"),
  fields = c("ad_group_criterion.criterion_id", "ad_group_criterion.keyword.text",
    "ad_group_criterion.keyword.match_type", "ad_group_criterion.status",
    "ad_group_criterion.approval_status", "ad_group_criterion.system_serving_status",
    "ad_group_criterion.quality_info.quality_score",
    "ad_group_criterion.quality_info.creative_quality_score",
    "ad_group_criterion.quality_info.post_click_quality_score", "ad_group.id",
    "ad_group.name", "ad_group.status", "campaign.id", "campaign.name", "customer.id",
    "customer.descriptive_name",
    "metrics.average_cpc", "metrics.average_cost",
    "metrics.ctr", "metrics.bounce_rate"),
  where = NULL,
  order_by = NULL,
  limit = NULL,
  parameters = NULL,
  login_customer_id = getOption("gads.login.customer.id"),
  include_resource_name = FALSE,
  cl = NULL,
  verbose = TRUE
)
```

## Arguments

customer_id	Google Ads client customer id, supports a single account id: "xxx-xxx-xxxx" or a vector of ids from the same Google Ads MCC: c("xxx-xxx-xxxx", "xxx-xxx-xxxx")
fields	character vector, list of report fields, all report has own fields list, for example <a href="#">see field list of keyword report</a> .
where	Filter, for example you can filter campaigns by status where = "campaign.status = 'ENABLED'".
order_by	Sorting, character vectors of fields and sorting directions, for example order_by = c("campaign.name DESC", "metrics.clicks").
limit	Maximun rows in report
parameters	Query parameters, for example parameters = "include_drafts=true".
login_customer_id	Google Ads manager customer id

include_resource_name	Get resource names fields in report
cl	A cluster object created by <a href="#">makeCluster</a> , or an integer to indicate number of child-processes (integer values are ignored on Windows) for parallel evaluations (see Details on performance).
verbose	Console log output

**Value**

tibble with Keyword criterions dicrionary

**See Also**

[Google Ads Query Builder](#)

---

gads_get_metadata	<i>Get metada of object, RESOURCE, ATTRIBUTE, METRIC or SEGMENT</i>
-------------------	---

---

**Description**

Get metada of object, RESOURCE, ATTRIBUTE, METRIC or SEGMENT

**Usage**

```
gads_get_metadata(
  category = c("RESOURCE", "ATTRIBUTE", "METRIC", "SEGMENT", "ALL"),
  fields = c("name", "category", "data_type", "selectable", "filterable", "sortable",
    "selectable_with", "metrics", "segments", "is_repeated", "type_url", "enum_values",
    "attribute_resources")
)
```

**Arguments**

category	Object category
fields	Metadata fields

**Value**

tibble with object metadata important arrays in result:

**attributeResources** Resources that can be using in resource argument in [gads\\_get\\_report](#).

**metrics** Metrics that are available to be selected with the resource in the field argument in [gads\\_get\\_report](#). Only populated for fields where the category is RESOURCE.

**segments** Segment keys that can be selected with the resource in the field argument in [gads\\_get\\_report](#). These segment the metrics specified in the query. Only populated for fields where the category is RESOURCE.

**selectableWith** Fields that can be selected alongside a given field, when not in the FROM clause. This attribute is only relevant when identifying resources or segments that are able to be selected in a query where they are not included by the resource in the FROM clause. As an example, if we are selecting `ad_group.id` and `segments.date` from `ad_group`, and we want to include attributes from `campaign`, we would need to check that `segments.date` is in the `selectableWith` attribute for `campaign`, since it's being selected alongside the existing `segments.date` field.

## See Also

[The Query Builder Blog Series: Part 3 - Creating a Resource Schema and Resource Metadata API documentation](#)

## Examples

```
## Not run:
# get resource list
resources <- gads_get_metadata("RESOURCE")

# get list of all objects
metadata <- gads_get_metadata("ALL")

## End(Not run)
```

---

gads_get_report	<i>Get data from Google Ads API</i>
-----------------	-------------------------------------

---

## Description

Get data from Google Ads API

## Usage

```
gads_get_report(
  resource = "campaign",
  fields = c("campaign.id", "campaign.name", "customer.id", "customer.descriptive_name",
    "campaign.status", "segments.date", "metrics.all_conversions", "metrics.clicks",
    "metrics.cost_micros", "metrics.ctr", "metrics.impressions",
    "metrics.interaction_rate", "metrics.interactions", "metrics.invalid_clicks"),
  where = NULL,
  order_by = NULL,
  limit = NULL,
  parameters = NULL,
  date_from = Sys.Date() - 15,
  date_to = Sys.Date() - 1,
  during = c(NA, "TODAY", "YESTERDAY", "LAST_7_DAYS", "LAST_BUSINESS_WEEK", "THIS_MONTH",
    "LAST_MONTH", "LAST_14_DAYS", "LAST_30_DAYS", "THIS_WEEK_SUN_TODAY"),
```

```

    "THIS_WEEK_MON_TODAY", "LAST_WEEK_SUN_SAT", "LAST_WEEK_MON_SUN"),
  customer_id = getOption("gads.customer.id"),
  login_customer_id = getOption("gads.login.customer.id"),
  include_resource_name = FALSE,
  gaql_query = NULL,
  cl = NULL,
  verbose = TRUE
)

```

## Arguments

resource	Report type, you can get list of all accessible resource using <a href="#">gads_get_metadata</a> . For more information see <a href="#">link with list of all resources</a>
fields	character vector, list of report fields, all report has own fields list. You can get list of accessible resource fields using <a href="#">gads_get_fields</a> for example <a href="#">see field list of campaign report</a> .
where	Filter, for example you can filter campaigns by status where = "campaign.status = 'ENABLED'".
order_by	Sorting, character vectors of fields and sorting directions, for example order_by = c("campaign.name DESC", "metrics.clicks").
limit	Maximun rows in report
parameters	Query parameters, for example parameters = "include_drafts=true".
date_from	Beginning of date range. Format: 2018-01-01
date_to	End of date rage. Format: 2018-01-10
during	Predefined date range. See <a href="#">documentation</a> for more details.
customer_id	Google Ads client customer id, supports a single account id: "xxx-xxx-xxxx" or a vector of ids from the same Google Ads MCC: c("xxx-xxx-xxxx", "xxx-xxx-xxxx")
login_customer_id	Google Ads manager customer id
include_resource_name	Get resource names fields in report
gaql_query	GAQL Query, you can make it in <a href="#">gads_get_metadata</a> . For more information see <a href="#">Query Builder</a> . If you use gaql_query, you don't need set other query parameters like resource, fields, where, dates etc.
cl	A cluster object created by <a href="#">makeCluster</a> , or an integer to indicate number of child-processes (integer values are ignored on Windows) for parallel evaluations (see Details on performance).
verbose	Console log output

## Value

tibble with the Google Ads Data.

**See Also**

- [Official Google Ads API Reports documentation](#)
- [Google Ads Query Builder](#)

**Examples**

```
## Not run:
# set client id
gads_set_login_customer_id('xxx-xxx-xxxx')

# set manager id if you work under MCC
gads_set_customer_id('xxx-xxx-xxxx')

# default paramas is campaign performance report
campaign_stat <- gads_get_report()

# you can load data from several client accounts at once
# from the same Google Ads MCC
# client ids
accounts <- c('xxx-xxx-xxxx', 'yyy-yyy-yyyy')
# loading data
multi_rep <- gads_get_report(
  date_from = as.Date('2021-06-10'),
  date_to = as.Date('2021-06-17'),
  customer_id = accounts
)

# -----
# using more arguments for other reports
group_report <- gads_get_report(
  customer_id = 4732519773,
  resource = "ad_group",
  fields = c("ad_group.campaign",
             "ad_group.id",
             "ad_group.name",
             "ad_group.status",
             "metrics.clicks",
             "metrics.cost_micros"),
  date_from = "2021-06-10",
  date_to = "2021-06-17",
  where = "ad_group.status = 'ENABLED'",
  order_by = c("metrics.clicks DESC", "metrics.cost_micros"),
  limit = 30000
)

# -----
# parallel loading mode
# note: you must using login_customer_id agrument in parallel mode
# because oprions gads_set_login_customer_id() does't work in parallel mode loading
library(parallel)
```

```
# make core cluster
cl <- makeCluster(4)

# loading data
multi_rep <- gads_get_report(
  date_from      = as.Date('2021-06-10'),
  date_to        = as.Date('2021-06-17'),
  customer_id    = c('111-111-1111',
                    '222-222-2222',
                    '333-333-3333',
                    '444-444-4444',
                    '555-555-5555'),
  login_customer_id = "999-999-9999",
  cl             = cl
)

# stop cluster
stopCluster(cl)

## End(Not run)
```

---

gads_has_token	<i>Is there a token on hand?</i>
----------------	----------------------------------

---

## Description

Reports whether rgoogleads has stored a token, ready for use in downstream requests.

## Usage

```
gads_has_token()
```

## Value

Logical.

## See Also

Other low-level API functions: [gads\\_token\(\)](#)

---

`gads_keyword_plan_forecast_metrics`*Returns the requested Keyword Plan forecasts.*

---

## Description

Returns the requested Keyword Plan forecasts.

## Usage

```
gads_keyword_plan_forecast_metrics(  
  keyword_plan_id,  
  customer_id = getOption("gads.customer.id"),  
  login_customer_id = getOption("gads.login.customer.id"),  
  verbose = TRUE  
)
```

## Arguments

<code>keyword_plan_id</code>	Keyword plan id, you can get list of your keyword plans using <a href="#">gads_get_report</a> with recourse <code>keyword_plan</code>
<code>customer_id</code>	Google Ads client customer id, supports a single account id: "xxx-xxx-xxxx" or a vector of ids from the same Google Ads MCC: c("xxx-xxx-xxxx", "xxx-xxx-xxxx")
<code>login_customer_id</code>	Google Ads manager customer id
<code>verbose</code>	Console log output

## Value

tibble with keyword plan historical metrics

## See Also

[Keyword Planning API Documentation](#)

## Examples

```
## Not run:  
# set client id  
gads_set_customer_id('xxx-xxx-xxxx')  
  
# set manager id  
gads_set_login_customer_id('xxx-xxx-xxxx')  
  
# get list of plan
```

```

plan_data <- gads_get_report(
  resource = 'keyword_plan',
  fields = c('keyword_plan.id')
)

# get keyword historical data
historical_plan_data <- gads_keyword_plan_forecast_metrics(
  keyword_plan_id = plan_data$keyword_plan_id[1]#
)

## End(Not run)

```

---

`gads_keyword_plan_forecast_timeseries`

*Returns a forecast in the form of a time series for the Keyword Plan over the next 52 weeks.*

---

### Description

Returns a forecast in the form of a time series for the Keyword Plan over the next 52 weeks.

### Usage

```

gads_keyword_plan_forecast_timeseries(
  keyword_plan_id,
  customer_id = getOption("gads.customer.id"),
  login_customer_id = getOption("gads.login.customer.id"),
  verbose = TRUE
)

```

### Arguments

<code>keyword_plan_id</code>	Keyword plan id, you can get list of your keyword plans using <a href="#">gads_get_report</a> with resource <code>keyword_plan</code>
<code>customer_id</code>	Google Ads client customer id, supports a single account id: "xxx-xxx-xxxx" or a vector of ids from the same Google Ads MCC: c("xxx-xxx-xxxx", "xxx-xxx-xxxx")
<code>login_customer_id</code>	Google Ads manager customer id
<code>verbose</code>	Console log output

### Value

tibble with keyword plan historical metrics

**See Also**

[Keyword Planning API Documentation](#)

**Examples**

```
## Not run:
# set client id
gads_set_customer_id('xxx-xxx-xxxx')

# set manager id
gads_set_login_customer_id('xxx-xxx-xxxx')

# get list of plan
plan_data <- gads_get_report(
  resource = 'keyword_plan',
  fields = c('keyword_plan.id')
)

# get keyword historical data
historical_plan_data <- gads_keyword_plan_forecast_timeseries(
  keyword_plan_id = plan_data$keyword_plan_id[1]#
)

## End(Not run)
```

---

`gads_keyword_plan_historical_metrics`

*Returns the requested Keyword Plan historical metrics.*

---

**Description**

Returns the requested Keyword Plan historical metrics.

**Usage**

```
gads_keyword_plan_historical_metrics(
  keyword_plan_id,
  customer_id = getOption("gads.customer.id"),
  login_customer_id = getOption("gads.login.customer.id"),
  verbose = TRUE
)
```

**Arguments**

`keyword_plan_id`

Keyword plan id, you can get list of your keyword plans using [gads\\_get\\_report](#) with resource `keyword_plan`

customer\_id Google Ads client customer id, supports a single account id: "xxx-xxx-xxxx" or a vector of ids from the same Google Ads MCC: c("xxx-xxx-xxxx", "xxx-xxx-xxxx")

login\_customer\_id Google Ads manager customer id

verbose Console log output

**Value**

tibble with keyword plan historical metrics

**Examples**

```
## Not run:
# set client id
gads_set_customer_id('xxx-xxx-xxxx')

# set manager id
gads_set_login_customer_id('xxx-xxx-xxxx')

# get list of plan
plan_data <- gads_get_report(
  resource = 'keyword_plan',
  fields = c('keyword_plan.id')
)

# get keyword historical data
historical_plan_data <- gads_keyword_plan_historical_metrics(
  keyword_plan_id = plan_data$keyword_plan_id[1]#
)

# main plan data
data <- historical_plan_data$main_data
historical_data <- historical_plan_data$historical_data

## End(Not run)
```

---

`gads_last_request_ids` *Get last API request ID for Google Ads API support ticket*

---

**Description**

Get last API request ID for Google Ads API support ticket

**Usage**

```
gads_last_request_ids()
```

**Value**

Request ID

**Examples**

```
## Not run:  
gads_last_request_ids()  
  
## End(Not run)
```

---

*gads\_set\_customer\_id*    *Set client customer id in current R session*

---

**Description**

Set client customer id in current R session

**Usage**

```
gads_set_customer_id(customer_id)
```

**Arguments**

customer\_id    your client customer id

**Value**

only set options

---

*gads\_set\_login\_customer\_id*  
*Set manager customer id in current R session*

---

**Description**

Set manager customer id in current R session

**Usage**

```
gads_set_login_customer_id(customer_id)
```

**Arguments**

customer\_id    your manager customer id

**Value**

only set options

---

gads_token	<i>Produce configured token</i>
------------	---------------------------------

---

**Description**

For internal use or for those programming around the Google Ads API. Returns a token pre-processed with `httr::config()`. Most users do not need to handle tokens "by hand" or, even if they need some control, `gads_auth()` is what they need. If there is no current token, `gads_auth()` is called to either load from cache or initiate OAuth2.0 flow. If auth has been deactivated via `gads_deauth()`, `gads_token()` returns NULL.

**Usage**

```
gads_token()
```

**Value**

A request object (an S3 class provided by `httr`).

**See Also**

Other low-level API functions: `gads_has_token()`

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gads_user	<i>Get info on current user</i>
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**Description**

Reveals the email address of the user associated with the current token. If no token has been loaded yet, this function does not initiate auth.

**Usage**

```
gads_user()
```

**Value**

An email address or, if no token has been loaded, NULL.

**See Also**

`gargle::token_userinfo()`, `gargle::token_email()`, `gargle::token_tokeninfo()`

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