Package ‘RGA’

August 29, 2016

Type Package

Title A Google Analytics API Client

Description Provides functions for accessing and retrieving data from the Google Analytics APIs (https://developers.google.com/analytics/). Supports OAuth 2.0 authorization. Package provides access to the Management, Core Reporting, Multi-Channel Funnels Reporting, Real Time Reporting and Metadata APIs. Access to all the Google Analytics accounts which the user has access to. Auto-pagination to return more than 10,000 rows of the results by combining multiple data requests. Also package provides shiny app to explore the core reporting API dimensions and metrics.

URL https://github.com/artemklevtsov/RGA

BugReports https://github.com/artemklevtsov/RGA/issues

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License GPL (>= 2)

Depends R (>= 3.2.0)

Imports jsonlite, httr (>= 1.1.0), plyr, lubridate


Suggests knitr, rmarkdown, testthat, shiny

VignetteBuilder knitr

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NeedsCompilation no
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Description

A package for extracting data from Google Analytics API into R.

Key features

• Support for OAuth 2.0 authorization;
• Access to the following Google Analytics APIs:
  – Management API: access to configuration data for accounts, web properties, views (profiles), goals and segments;
  – Core Reporting API: query for dimensions and metrics to produce customized reports;
  – Multi-Channel Funnels Reporting API: query the traffic source paths that lead to a user’s goal conversion;
  – Real Time Reporting API: report on activity occurring on your property at the moment;
  – Metadata API: access the list of API dimensions and metrics and their attributes;
• Access to all the accounts which the user has access to;
• API responses is converted directly into R as a data.frame;
• Auto-pagination to return more than 10,000 rows of the results by combining multiple data requests.

To report a bug please type: utils::bug.report(package = "RGA").

Usage

Once you have the package loaded, there are 3 steps you need to use to get data from Google Analytics:

1. Authorize this package to access your Google Analytics data with the authorize function;
2. Determine the profile ID which you want to get access to with the list_profiles function;
3. Get the results from the API with one of these functions: get_ga, get_mcf or get_realtime.

For details about this steps please type into R: browseVignettes(package = "RGA")

Bug reports

Before posting a bug please try execute your code with the with_verbose wrapper. It will be useful if you attach verbose output to the bug report. For example: httr::with_verbose(list_profiles())
Post the traceback() output also may be helpful.

To report a bug please type into R: utils::bug.report(package = "RGA")

Author(s)

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authorize

Examples

```r
## Not run:
# load package
library(RGA)
# get access token
authorize()
# get a GA profiles
ga_profiles <- list_profiles()
# choose the profile ID by site URL
id <- ga_profiles[grep("http://example.com", ga_profiles$website.url), "id"]
# get date when GA tracking began
first.date <- firstdate(id)
# get GA report data
ga_data <- get_ga(id, start.date = first.date, end.date = "today",
metrics = "ga:users,ga:sessions",
dimensions = "ga:visitorGender,ga:userAgeBracket")
```

authorize

Authorize the RGA package to the user’s Google Analytics account using OAuth2.0

Description

authorize() function uses `oauthRNP_token` to obtain the OAuth tokens. Expired tokens will be refreshed automatically. If you have no `client.id` and `client.secret` the package provides predefined values.

Usage

```r
authorize(username = getOption("rga.username"),
  client.id = getOption("rga.client.id"),
  client.secret = getOption("rga.client.secret"),
  cache = getOption("rga.cache"), reauth = FALSE, token = NULL)
```

Arguments

- **username**: character. Google username email address hint. If not set you will need choose an account for the authorization.
- **client.id**: character. OAuth client ID. If you set the environment variable `RGA_CLIENT_ID` it is used.
- **client.secret**: character. OAuth client secret. If you set the environment variable `RGA_CLIENT_SECRET` it is used.
authorize

cache logical or character. TRUE means to cache using the default cache file .oauth-http, FALSE means not to cache. A string means to use the specified path as the cache file. Otherwise will be used the rga.cache option value (.ga-token.rds by default). If username argument specified token will be cached in the .username-token.rds file.

reauth logical. Set TRUE to reauthorization with the same or different Google Analytics account.

token A valid Token2.0 object (including TokenServiceAccount) to setup directly.

Details

After calling this function first time, a web browser will be opened. First, log in with a Google Account, confirm the authorization to access the Google Analytics data. Note that the package requests access for read-only data.

When the authorize() function is used the Token variable is created in the separate .RGAEnv environment which is not visible for user. So, there is no need to pass the token argument to any function which requires authorization every time. Also there is a possibility to store token in separate variable and to pass it to the functions. It can be useful when you are working with several accounts at the same time.

username, client_id and client_secret params can be specified by an appropriate options (with “RGA” prefix): RGA_USERNAME, RGA_CLIENT_ID, RGA_CLIENT_SECRET.

Value

A Token2.0 object containing all the data required for OAuth access.

Use custom Client ID and Client secret

Google Analytics is used by millions of sites. To protect the system from receiving more data than it can handle, and to ensure an equitable distribution of system resources, certain limits have been put in place.

The following quota limits are shared between all RGA users which use the predefined credentials (daily quotas refresh at midnight PST):

- 50,000 requests per day
- 10 queries per second per IP

To get full quota, you must register your application in the Google Developers Console. When you register a new application, you are given a unique client ID to identify each application under that project. To find your project’s client ID and client secret, do the following:

1. Open the Credentials page.
2. Select a project (create if needed).
3. create your project’s OAuth 2.0 credentials by clicking Add credentials > OAuth 2.0 client ID and select Other application type.
4. Look for the Client ID in the OAuth 2.0 client IDs section. You can click the application name for details.
To enable Analytics API for your project, do the following:

1. Open the Analytics API Overview page.
2. Click on the Enable API button to activate Analytics API.

There 3 ways to use custom Client ID and Client secret:

1. Pass the `client.id` and `client.secret` arguments directly in the `authorize()` function call
2. Set the `RGA_CLIENT_ID` and `RGA_CLIENT_SECRET` environment variables
3. Set the `rga.client.id` and `rga.client.secret` options into the R session

Revoke access application

To revoke access the RGA package do the following:

1. Go to the Apps connected to your account page
2. Find RGA package entry. Then click on it
3. Click on the Revoke access button in the sidebar on the right

References

- Google Developers Console
- Environment variable

See Also

- Other OAuth: `oauth_app` `oauth2.0_token` `Token-class`
- To revoke all tokens: `revoke_all`
- Setup environment variables: `Startup`

Examples

```r
## Not run:
authorize(client.id = "my_id", client.secret = "my_secret")
# if set RGA_CLIENT_ID and RGA_CLIENT_SECRET environment variables
authorize()
# assign token to variable
ga_token <- authorize(client.id = "my_id", client.secret = "my_secret")

## End(Not run)
```
**firstdate**

*First Date*

**Description**

Get the first date with available data.

**Usage**

`firstdate(profileId, token)`

**Arguments**

- **profileId**: character. Google Analytics profile ID. Can be obtained using the `list_profiles` or via the web interface Google Analytics.
- **token**: `Token2.0` class object with a valid authorization data.

**Value**

Start date of collecting the Google Analytics statistics.

**See Also**

Other Reporting API: `get_ga, get_mcf, get_realtime`

**Examples**

```r
## Not run:
authorize()
first_date <- firstdate(profileId = "profile_id")
ga_data <- get_ga("profile_id", start.date = first_date, end.date = "today",
metrics = "ga:sessions", dimensions = "ga:source,ga:medium",
sort = ":-ga:sessions")
## End(Not run)
```

---

**ga**

*Lists all columns for a Google Analytics core report type*

**Description**

This dataset represents all of the dimensions and metrics for the reporting API with their attributes. Attributes returned include UI name, description, segments support, etc.
Usage
g
Format

A data frame with 436 rows and 14 variables containing the following columns:

**id**  Parameter name.

**type**  The type of column: DIMENSION, METRIC.

**dataType**  The type of data this column represents: STRING, INTEGER, PERCENT, TIME, CURRENCY, FLOAT.

**group**  The dimensions/metrics group the column belongs to.

**status**  The status of the column: PUBLIC, DEPRECATED.

**uiName**  The name/label of the column used in user interfaces (UI).

**description**  The full description of the column.

**allowedInSegments**  Indicates whether the column can be used in the segment query parameter.

**addedInApiVersion**  API version with this param was added.

**replacedBy**  The replacement column to use for a column with a DEPRECATED status.

**calculation**  Only available for calculated metrics. This shows how the metric is calculated.

**minTemplateIndex**  Only available for templatized columns. This is the minimum index for the column.

**maxTemplateIndex**  Only available for templatized columns. This is the maximum index for the column.

**premiumMinTemplateIndex**  Only available for templatized columns. This is the minimum index for the column for premium properties.

**premiumMaxTemplateIndex**  Only available for templatized columns. This is the maximum index for the column for premium properties.

Source


References

Google Analytics Metadata API
Core Reporting API - Dimensions & Metrics Reference

See Also

get_ga_list_dimsmets
get_custom_dimension

Examples

```r
# a count of parameters types
table(ga$type)
# parameters groups
table(ga$group)
# get a deprecated parameters was replaced by
subset(ga, status == "DEPRECATED", c(id, replacedBy))
# get a calculation metrics
subset(ga, !is.na(calculation), c(id, calculation))
# get a not deprecated metrics from user group
subset(ga, group == "User" & type == "METRIC" & status != "DEPRECATED", id)
# get parameters allowed in segments
subset(ga, allowedInSegments, id)
```

get_custom_dimension   Custom Dimensions

Description

Get a custom dimension to which the user has access.

Usage

`get_custom_dimension(accountId, webPropertyId, customDimensionId, token)`

Arguments

- **accountId**: character. Account ID for the custom dimension to retrieve.
- **webPropertyId**: character. Web property ID for the custom dimension to retrieve.
- **customDimensionId**: character. The ID of the custom dimension to retrieve.
- **token**: `Token2.0` class object with a valid authorization data.

Value

- **kind**: Kind value for a custom dimension. Set to "analytics#customDimension". It is a read-only field.
- **id**: Custom dimension ID.
- **accountId**: Account ID.
- **webPropertyId**: Property ID.
- **name**: Name of the custom dimension.
- **index**: Index of the custom dimension.
- **scope**: Scope of the custom dimension: HIT, SESSION, USER or PRODUCT.
- **active**: Boolean indicating whether the custom dimension is active.
- **created**: Time the custom dimension was created.
- **updated**: Time the custom dimension was last modified.
get_custom_metric

### Description
Get a custom metric to which the user has access.

### Usage
```
get_custom_metric(accountId, webPropertyId, customMetricId, token)
```

### Arguments
- **accountId**: character. Account ID for the custom metric to retrieve.
- **webPropertyId**: character. Web property ID for the custom metric to retrieve.
- **customMetricId**: character. The ID of the custom metric to retrieve.
- **token**: `Token2.0` class object with a valid authorization data.

### Value
- **kind**: Kind value for a custom metric. Set to "analytics#customMetric". It is a read-only field.
- **id**: Custom metric ID.
- **accountId**: Account ID.
- **webPropertyId**: Property ID.
- **name**: Name of the custom metric.
- **index**: Index of the custom metric.
- **scope**: Scope of the custom metric: HIT or PRODUCT.
- **active**: Boolean indicating whether the custom metric is active.
- **type**: Data type of custom metric.
- **min_value**: Min value of custom metric.
- **max_value**: Max value of custom metric.
- **created**: Time the custom metric was created.
- **updated**: Time the custom metric was last modified.
get_experiment

References

Management API - Custom Metrics Overview

See Also

Other Management API: get_custom_dimension, get_experiment, get_filter, get_goal, get_profile, get_unsampled_report, get_upload, get_webproperty, list_accounts, list_custom_data_sources, list_custom_dimensions, list_custom_metrics, list_experiments, list_filters, list_goals, list_profiles, list_segments, list_unsampled_reports, listUploads, list_webproperties

get_experiment Experiments

Description

Returns an experiment to which the user has access.

Usage

get_experiment(accountId, webPropertyId, profileId, experimentId, token)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>accountId</td>
<td>character. Account ID to retrieve the experiment for.</td>
</tr>
<tr>
<td>webPropertyId</td>
<td>character. Web property ID to retrieve the experiment for.</td>
</tr>
<tr>
<td>profileId</td>
<td>character. View (Profile) ID to retrieve the experiment for.</td>
</tr>
<tr>
<td>experimentId</td>
<td>character. Experiment ID to retrieve the experiment for.</td>
</tr>
<tr>
<td>token</td>
<td>Token2.0 class object with a valid authorization data.</td>
</tr>
</tbody>
</table>

Value

The experiments collection is a set of experiment resources, each of which describes a content experiment available to an authenticated user.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Experiment ID. Required for patch and update. Disallowed for create.</td>
</tr>
<tr>
<td>kind</td>
<td>Resource type for an Analytics experiment. This field is read-only.</td>
</tr>
<tr>
<td>accountId</td>
<td>Account ID to which this experiment belongs. This field is read-only.</td>
</tr>
<tr>
<td>webPropertyId</td>
<td>Web property ID to which this experiment belongs. The web property ID is of</td>
</tr>
<tr>
<td></td>
<td>the form UA-XXXXX-YY. This field is read-only.</td>
</tr>
<tr>
<td>internalWebPropertyId</td>
<td>Internal ID for the web property to which this experiment belongs. This field is read-only.</td>
</tr>
<tr>
<td>profileId</td>
<td>View (Profile) ID to which this experiment belongs. This field is read-only.</td>
</tr>
<tr>
<td>name</td>
<td>Experiment name. This field may not be changed for an experiment whose status is ENDED. This field is required when creating an experiment.</td>
</tr>
<tr>
<td>Field</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>description</td>
<td>Notes about this experiment.</td>
</tr>
<tr>
<td>created</td>
<td>Time the experiment was created. This field is read-only.</td>
</tr>
<tr>
<td>updated</td>
<td>Time the experiment was last modified. This field is read-only.</td>
</tr>
</tbody>
</table>
| objectiveMetric    | The metric that the experiment is optimizing. Valid values: ga:goal(n)Comple
tions, ga:adsenseAdsClicks, ga:adsenseAdsViewed, ga:adsenseRevenue, ga:bounces, ga:pageviews, ga:sessionDuration, ga:transactions, ga:transactionRevenue. This field is required if status is "RUNNING" and servingFramework is one of "REDIRECT" or "API". |
| optimizationType   | Whether the objectiveMetric should be minimized or maximized. Possible val
dues: "MAXIMUM", "MINIMUM". Optional–defaults to "MAXIMUM". Cannot be specified without objectiveMetric. Cannot be modified when status is "RUNNING" or "ENDED". |
| status             | Experiment status. Possible values: "DRAFT", "READY_TO_RUN", "RUNNING", "ENDED". Experiments can be created in the "DRAFT", "READY_TO_RUN" or "RUNNING" state. This field is required when creating an experiment. |
| winnerFound        | Boolean specifying whether a winner has been found for this experiment. This field is read-only. |
| startTime          | The starting time of the experiment (the time the status changed from READY_TO_RUN to RUNNING). This field is present only if the experiment has started. This field is read-only. |
| endTime            | The ending time of the experiment (the time the status changed from RUNNING to ENDED). This field is present only if the experiment has ended. This field is read-only. |
| reasonExperimentEnded | Why the experiment ended. Possible values: "STOPPED_BY_USER", "WINNER_FOUND", "EXPERIMENT_EXPIRED", "ENDED_WITH_NO_WINNER", "GOAL_OBJECTIVE_CHANGED", "ENDED_WITH_NO_WINNER" means that the experiment didn’t expire but no winner was projected to be found. If the experiment status is changed via the API to ENDED this field is set to STOPPED_BY_USER. This field is read-only. |
| rewriteVariationUrlsAsOriginal | Boolean specifying whether variations URLs are rewritten to match those of the original. This field may not be changed for an experiment whose status is ENDED. |
| winnerConfidenceLevel | A floating-point number between 0 and 1. Specifies the necessary confidence level to choose a winner. This field may not be changed for an experiment whose status is ENDED. |
| minimumExperimentLengthInDays | An integer number in [3, 90]. Specifies the minimum length of the experiment. Can be changed for a running experiment. This field may not be changed for an experiment whose status is ENDED. |
trafficCoverage
A floating-point number between 0 and 1. Specifies the fraction of the traffic that participates in the experiment. Can be changed for a running experiment. This field may not be changed for an experiment whose status is ENDED.

equalWeighting
Boolean specifying whether to distribute traffic evenly across all variations. If the value is False, content experiments follows the default behavior of adjusting traffic dynamically based on variation performance. Optional – defaults to False. This field may not be changed for an experiment whose status is ENDED.

snippet
The snippet of code to include on the control page(s). This field is read-only.

variations
Array of variations. The first variation in the array is the original. The number of variations may not change once an experiment is in the RUNNING state. At least two variations are required before status can be set to RUNNING.

servingFramework
The framework used to serve the experiment variations and evaluate the results. One of: REDIRECT: Google Analytics redirects traffic to different variation pages, reports the chosen variation and evaluates the results. API: Google Analytics chooses and reports the variation to serve and evaluates the results; the caller is responsible for serving the selected variation. EXTERNAL: The variations will be served externally and the chosen variation reported to Google Analytics. The caller is responsible for serving the selected variation and evaluating the results.

editableInGaUi
If true, the end user will be able to edit the experiment via the Google Analytics user interface.

variations.name
The name of the variation. This field is required when creating an experiment. This field may not be changed for an experiment whose status is ENDED.

variations.url
The URL of the variation. This field may not be changed for an experiment whose status is RUNNING or ENDED.

variations.status
Status of the variation. Possible values: "ACTIVE", "INACTIVE". INACTIVE variations are not served. This field may not be changed for an experiment whose status is ENDED.

variations.weight
Weight that this variation should receive. Only present if the experiment is running. This field is read-only.

variations.won
True if the experiment has ended and this variation performed (statistically) significantly better than the original. This field is read-only.

References
Management API - Experiments Overview

See Also
Other Management API: get_custom_dimension, get_custom_metric, get_filter, get_goal, get_profile, get_unsampled_report, get_upload, get_webproperty, list_accounts, list_custom_data_sources, list_custom_dimensions, list_custom_metrics, list_experiments, list_filters, list_goals, list_profiles, list_segments, list_unsampled_reports, list_uploads, list_webproperties
get_filter  

**Filters**

**Description**

Returns a filter to which the user has access.

**Usage**

get_filter(accountId, filterId, token)

**Arguments**

- **accountId** character. Account ID to retrieve filters for.
- **filterId** character. Filter ID to retrieve filters for.
- **token** `Token2.0` class object with a valid authorization data.

**Value**

The Filters collection is a set of Filter resources, each of which describes a filter which can be applied to a View (profile).

- **id** Filter ID.
- **kind** Resource type for Analytics filter.
- **accountId** Account ID to which this filter belongs.
- **name** Name of this filter.
- **type** Type of this filter. Possible values are INCLUDE, EXCLUDE, LOWERCASE, UPPERCASE, SEARCH_AND_REPLACE and ADVANCED.
- **created** Time this filter was created.
- **updated** Time this filter was last modified.
- **includeDetails** Details for the filter of the type INCLUDE.
- **excludeDetails** Details for the filter of the type EXCLUDE.
- **lowercaseDetails** Details for the filter of the type LOWER.
- **uppercaseDetails** Details for the filter of the type UPPER.
- **searchAndReplaceDetails** Details for the filter of the type SEARCH_AND_REPLACE.
- **advancedDetails** Details for the filter of the type ADVANCED.
- **includeDetails.kind** Kind value for filter expression
Field to filter. Possible values: Content and Traffic PAGE_REQUEST_URI, PAGE_HOSTNAME, PAGE_TITLE, REFERRAL, COST_DATA_URI (Campaign target URL), HIT_TYPE, INTERNAL_SEARCH_TERM, INTERNAL_SEARCH_TYPE, SOURCE_PROPERTY_TRACKING_ID, Campaign or AdGroup CAMPAIGN_SOURCE, CAMPAIGN_MEDIUM, CAMPAIGN_NAME, CAMPAIGN_AD_GROUP, CAMPAIGN_TERM, CAMPAIGN_CONTENT, CAMPAIGN_CODE, CAMPAIGN_REFERRAL_PATH, E-Commerce TRANSACTION_COUNTRY, TRANSACTION_REGION, TRANSACTION_CITY, TRANSACTION_AFFILIATION (Store or order location), ITEM_NAME, ITEM_CODE, ITEM_VARIATION, TRANSACTION_ID, TRANSACTION_CURRENCY_CODE, PRODUCT_ACTION_TYPE, Audience/Users BROWSER, BROWSER_VERSION, BROWSER_SIZE, PLATFORM, PLATFORM_VERSION, LANGUAGE, SCREEN_RESOLUTION, SCREEN_COLORS, JAVA_ENABLED (Boolean Field), FLASH_VERSION, GEO_SPEED (Connection speed), VISITOR_TYPE, GEO_ORGANIZATION (ISP organization), GEO_DOMAIN, GEO_IP_ADDRESS, GEO_IP_VERSION, Location GEO_COUNTRY, GEO_REGION, GEO_CITY, Event EVENT_CATEGORY, EVENT_ACTION, EVENT_LABEL, Other CUSTOM_FIELD_1, CUSTOM_FIELD_2, USER_DEFINED_VALUE, Application APP_ID, APP_INSTALLER_ID, APP_NAME, APP_VERSION, SCREEN, IS_APP (Boolean Field), IS_FATAL_EXCEPTION (Boolean Field), EXCEPTION_DESCRIPTION, Mobile device IS_MOBILE (Boolean Field, Deprecated. Use DEVICE_CATEGORY=mobile), IS_TABLET (Boolean Field, Deprecated. Use DEVICE_CATEGORY=tablet), DEVICE_CATEGORY, MOBILE_HAS_QWERTY_KEYBOARD (Boolean Field), MOBILE_HAS_NFC_SUPPORT (Boolean Field), MOBILE_HAS_CELLULAR_RADIO (Boolean Field), MOBILE_HAS_WIFI_SUPPORT (Boolean Field), MOBILE_BRAND_NAME, MOBILE_MODEL_NAME, MOBILE_MARKETING_NAME, MOBILE_POINTING_METHOD, Social SOCIAL_NETWORK, SOCIAL_ACTION, SOCIAL_ACTION_TARGET,

Match type for this filter. Possible values are BEGINS_WITH, EQUAL, ENDS_WITH, CONTAINS, or MATCHES. GEO_DOMAIN, GEO_IP_ADDRESS, PAGE_REQUEST_URI, or PAGE_HOSTNAME filters can use any match type; all other filters must use MATCHES.

Filter expression value

Determines if the filter is case sensitive.

The Index of the custom dimension. Set only if the field is a is CUSTOM_DIMENSION.

Kind value for filter expression

Field to filter. Possible values: Content and Traffic PAGE_REQUEST_URI, PAGE_HOSTNAME, PAGE_TITLE, REFERRAL, COST_DATA_URI (Campaign target URL), HIT_TYPE, INTERNAL_SEARCH_TERM, INTERNAL_SEARCH_TYPE, SOURCE_PROPERTY_TRACKING_ID, Campaign or AdGroup CAMPAIGN_SOURCE, CAMPAIGN_MEDIUM, CAMPAIGN_NAME, CAMPAIGN_AD_GROUP, CAMPAIGN_TERM, CAMPAIGN_CONTENT, CAMPAIGN_CODE, CAMPAIGN_REFERRAL_PATH, E-Commerce TRANSACTION_COUNTRY, TRANSACTION_REGION, TRANSACTION_CITY, TRANSACTION_AFFILIATION (Store or order location), ITEM_NAME,
ITEM_CODE, ITEM_VARIATION, TRANSACTION_ID, TRANSACTION_CURRENCY_CODE, PRODUCT_ACTION_TYPE, Audience/Users BROWSER, BROWSER_VERSION, BROWSER_SIZE, PLATFORM, PLATFORM_VERSION, LANGUAGE, SCREEN_RESOLUTION, SCREEN_COLORS, JAVA_ENABLED (Boolean Field), FLASH_VERSION, GEO_SPEED (Connection speed), VISITOR_TYPE, GEO_ORGANIZATION (ISP organization), GEO_DOMAIN, GEO_IP_ADDRESS, GEO_IP_VERSION, Location GEO_COUNTRY, GEO_REGION, GEO_CITY, Event EVENT_CATEGORY, EVENT_ACTION, EVENT_LABEL, Other CUSTOM_FIELD_1, CUSTOM_FIELD_2, USER_DEFINED_VALUE, Application APP_ID, APP_INSTALLER_ID, APP_NAME, APP_VERSION, SCREEN, IS_APP (Boolean Field), IS_FATAL_EXCEPTION (Boolean Field), EXCEPTION_DESCRIPTION, Mobile device IS_MOBILE (Boolean Field, Deprecated. Use DEVICE_CATEGORY=mobile), IS_TABLET (Boolean Field, Deprecated. Use DEVICE_CATEGORY=tablet), DEVICE_CATEGORY, MOBILE_HAS_QWERTY_KEYBOARD (Boolean Field), MOBILE_HAS_NFC_SUPPORT (Boolean Field), MOBILE_HAS_CELLULAR_RADIO (Boolean Field), MOBILE_HAS_WIFI_SUPPORT (Boolean Field), MOBILE_BRAND_NAME, MOBILE_MODEL_NAME, MOBILE_MARKETING_NAME, MOBILE_POINTING_METHOD, Social SOCIAL_NETWORK, SOCIAL_ACTION, SOCIAL_ACTION_TARGET,

excludeDetails.matchType
Match type for this filter. Possible values are BEGINS_WITH, EQUAL, ENDS_WITH, CONTAINS, or MATCHES. GEO_DOMAIN, GEO_IP_ADDRESS, PAGE_REQUEST_URI, or PAGE_HOSTNAME filters can use any match type; all other filters must use MATCHES.

excludeDetails.expressionValue
Filter expression value

excludeDetails.caseSensitive
Determines if the filter is case sensitive.

excludeDetails.fieldIndex
The Index of the custom dimension. Set only if the field is a is CUSTOM_DIMENSION.

lowercaseDetails.field
Field to use in the filter.

lowercaseDetails.fieldIndex
The Index of the custom dimension. Required if field is a CUSTOM_DIMENSION.

uppercaseDetails.field
Field to use in the filter.

uppercaseDetails.fieldIndex
The Index of the custom dimension. Required if field is a CUSTOM_DIMENSION.

searchAndReplaceDetails.field
Field to use in the filter.

searchAndReplaceDetails.fieldIndex
The Index of the custom dimension. Required if field is a CUSTOM_DIMENSION.

searchAndReplaceDetails.searchString
Term to search.

searchAndReplaceDetails.replaceString
Term to replace the search term with.

searchAndReplaceDetails.caseSensitive
Determines if the filter is case sensitive.
get_filter

```
advancedDetails.fieldA
    Field A.
advancedDetails.fieldAIndex
    The Index of the custom dimension. Required if field is a CUSTOM_DIMENSION.
advancedDetails.extractA
    Expression to extract from field A.
advancedDetails.fieldB
    Field B.
advancedDetails.fieldBIndex
    The Index of the custom dimension. Required if field is a CUSTOM_DIMENSION.
advancedDetails.extractB
    Expression to extract from field B.
advancedDetails.outputToField
    Output field.
advancedDetails.outputToFieldIndex
    The Index of the custom dimension. Required if field is a CUSTOM_DIMENSION.
advancedDetails.outputConstructor
    Expression used to construct the output value.
advancedDetails.fieldARequired
    Indicates if field A is required to match.
advancedDetails.fieldBRequired
    Indicates if field B is required to match.
advancedDetails.overrideOutputField
    Indicates if the existing value of the output field, if any, should be overridden by
    the output expression.
advancedDetails.caseSensitive
    Indicates if the filter expressions are case sensitive.
```

References

Management API - Filters Overview

See Also

Other Management API: get_custom_dimension, get_custom_metric, get_experiment, get_goal,
get_profile, get_unsampled_report, get_upload, get_webproperty, list_accounts, list_custom_data_sources,
list_custom_dimensions, list_custom_metrics, list_experiments, list_filters, list_goals,
list_profiles, list_segments, list_unsampled_reports, list_uploads, list_webproperties
Description

Get the Analytics data from Core Reporting API for a view (profile).

Usage

get_ga(profileId = getOption("rga.profileId"), start.date = "7daysAgo", end.date = "yesterday", metrics = c("ga:users", "ga:sessions", "ga:pageviews"), dimensions = NULL, sort = NULL, filters = NULL, segment = NULL, samplingLevel = NULL, start.index = NULL, max.results = NULL, include.empty.rows = NULL, fetch.by = NULL, token)

Arguments

profileId character. Unique table ID for retrieving Analytics data. Table ID is of the form ga:XXXX, where XXXX is the Analytics view (profile) ID. Can be obtained using the list_profiles or via the web interface Google Analytics.

start.date character. Start date for fetching Analytics data. Request can specify a start date formatted as "YYYY-MM-DD" or as a relative date (e.g., "today", "yesterday", or "7daysAgo"). The default value is "7daysAgo".

date character. End date for fetching Analytics data. Request can specify an end date formatted as "YYYY-MM-DD" or as a relative date (e.g., "today", "yesterday", or "7daysAgo"). The default value is "yesterday".

metrics character. A comma-separated list of Analytics metrics. E.g., "ga:sessions,ga:pageviews". At least one metric must be specified.

dimensions character. A comma-separated list of Analytics dimensions. E.g., "ga:browser,ga:city".

sort character. A comma-separated list of dimensions or metrics that determine the sort order for Analytics data.

filters character. A comma-separated list of dimension or metric filters to be applied to Analytics data.

segment character. An Analytics segment to be applied to data. Can be obtained using the list_segments or via the web interface Google Analytics.

samplingLevel character. The desired sampling level. Allowed values: "DEFAULT", "FASTER", "HIGHER_PRECISION".

start.index integer. An index of the first entity to retrieve. Use this parameter as a pagination mechanism along with the max-results parameter.

max.results integer. The maximum number of entries to include in this feed.

include.empty.rows logical. The response will include empty rows if this parameter is set to TRUE (default),
get_goal

Description

Gets a goal to which the user has access.

Usage

get_goal(accountId, webPropertyId, profileId, goalId, token)
Arguments

**accountID** character. Account ID to retrieve the goal for.

**webPropertyId** character. Web property ID to retrieve the goal for.

**profileId** character. View (Profile) ID to retrieve the goal for.

**goalId** character. Goal ID to retrieve the goal for.

**token** `Token2.0` class object with a valid authorization data.

Value

A Goals resource describes a goal for one of a user’s profiles.

**id** Goal ID.

**kind** Resource type for an Analytics goal.

**accountId** Account ID to which this goal belongs.

**webPropertyId** Web property ID to which this goal belongs. The web property ID is of the form `UA-XXXXX-YY`.

**internalWebPropertyId** Internal ID for the web property to which this goal belongs.

**profileId** View (Profile) ID to which this goal belongs.

**name** Goal name.

**value** Goal value.

**active** Determines whether this goal is active.

**type** Goal type. Possible values are `URL_DESTINATION`, `VISIT_TIME_ON_SITE`, `VISIT_NUM_PAGES`, and `EVENT`.

**created** Time this goal was created.

**updated** Time this goal was last modified.

**urlDestinationDetails** Details for the goal of the type `URL_DESTINATION`.

**visitTimeOnSiteDetails** Details for the goal of the type `VISIT_TIME_ON_SITE`.

**visitNumPagesDetails** Details for the goal of the type `VISIT_NUM_PAGES`.

**eventDetails** Details for the goal of the type `EVENT`.

**urlDestinationDetails.url** URL for this goal.

**urlDestinationDetails.caseSensitive** Determines if the goal URL must exactly match the capitalization of visited URLs.

**urlDestinationDetails.matchType** Match type for the goal URL. Possible values are `HEAD`, `EXACT`, or `REGEX`.

**urlDestinationDetails.firstStepRequired** Determines if the first step in this goal is required.
urlDestinationDetails.steps.number
  Step number.
urlDestinationDetails.steps.name
  Step name.
urlDestinationDetails.steps.url
  URL for this step.
visitTimeOnSiteDetails.comparisonType
  Type of comparison. Possible values are LESS_THAN or GREATER_THAN.
visitTimeOnSiteDetails.comparisonValue
  Value used for this comparison.
visitNumPagesDetails.comparisonType
  Type of comparison. Possible values are LESS_THAN, GREATER_THAN, or
  EQUAL.
visitNumPagesDetails.comparisonValue
  Value used for this comparison.
eventDetails.useEventValue
  Determines if the event value should be used as the value for this goal.
eventDetails.eventConditions.type
  Type of this event condition. Possible values are CATEGORY, ACTION, LA-
  BEL, or VALUE.
eventDetails.eventConditions.matchType
  Type of the match to be performed. Possible values are REGEXP, BEGINS_WITH,
  or EXACT.
eventDetails.eventConditions.expression
  Expression used for this match.
eventDetails.eventConditions.comparisonType
  Type of comparison. Possible values are LESS_THAN, GREATER_THAN or
  EQUAL.
eventDetails.eventConditions.comparisonValue
  Value used for this comparison.

References

Management API - Goals Overview

See Also

Other Management API: get_custom_dimension, get_custom_metric, get_experiment, get_filter,
  get_profile, get_unsampled_report, get_upload, get_webproperty, list_accounts, list_custom_data_sources,
  list_custom_dimensions, list_custom_metrics, list_experiments, list_filters, list_goals,
  list_profiles, list_segments, list_unsampled_reports, list_uploads, list_webproperties
get_mcf

Multi-Channel Funnels Reporting API

Description

Get the Analytics data from Multi-Channel Funnels Reporting API for a view (profile).

Usage

get_mcf(profileId = getOption("rga.profileId"), start.date = "7daysAgo",
    end.date = "yesterday", metrics = "mcf:totalConversion",
    dimensions = NULL, sort = NULL, filters = NULL, samplingLevel = NULL,
    start.index = NULL, max.results = NULL, fetch.by = NULL, token)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>profileId</td>
<td>character. Unique table ID for retrieving Analytics data. Table ID is of the form ga:XXXX, where XXXX is the Analytics view (profile) ID. Can be obtained using the list_profiles or via the web interface Google Analytics.</td>
</tr>
<tr>
<td>start.date</td>
<td>character. Start date for fetching Analytics data. Request can specify a start date formatted as &quot;YYYY-MM-DD&quot; or as a relative date (e.g., &quot;today&quot;, &quot;yesterday&quot;, or &quot;7daysAgo&quot;). The default value is &quot;7daysAgo&quot;.</td>
</tr>
<tr>
<td>end.date</td>
<td>character. End date for fetching Analytics data. Request can specify an end date formatted as &quot;YYYY-MM-DD&quot; or as a relative date (e.g., &quot;today&quot;, &quot;yesterday&quot;, or &quot;7daysAgo&quot;). The default value is &quot;yesterday&quot;.</td>
</tr>
<tr>
<td>metrics</td>
<td>character. A comma-separated list of Multi-Channel Funnels metrics. E.g., &quot;mcf:totalConversions,mcf:totalConversionValue&quot;. At least one metric must be specified.</td>
</tr>
<tr>
<td>dimensions</td>
<td>character. A comma-separated list of Multi-Channel Funnels dimensions. E.g., &quot;mcf:source,mcf:medium&quot;.</td>
</tr>
<tr>
<td>sort</td>
<td>character. A comma-separated list of dimensions or metrics that determine the sort order for Analytics data.</td>
</tr>
<tr>
<td>filters</td>
<td>character. A comma-separated list of dimension or metric filters to be applied to Analytics data.</td>
</tr>
<tr>
<td>samplingLevel</td>
<td>character. The desired sampling level. Allowed values: &quot;DEFAULT&quot;, &quot;FASTER&quot;, &quot;HIGHER_PRECISION&quot;.</td>
</tr>
<tr>
<td>start.index</td>
<td>integer. An index of the first entity to retrieve. Use this parameter as a pagination mechanism along with the max-results parameter.</td>
</tr>
<tr>
<td>max.results</td>
<td>integer. The maximum number of entries to include in this feed.</td>
</tr>
<tr>
<td>fetch.by</td>
<td>character. Split the query by date range. Allowed values: &quot;day&quot;, &quot;week&quot;, &quot;month&quot;, &quot;quarter&quot;, &quot;year&quot;. It does not work correctly with the ga:users and ga:NdayUsers metrics.</td>
</tr>
<tr>
<td>token</td>
<td>Token2.0 class object with a valid authorization data.</td>
</tr>
</tbody>
</table>
get_profile

**Value**

A data frame including the Analytics Multi-Channel Funnels data for a view (profile). Additional information about profile and request query stored in the attributes.

**References**

MCF Reporting API - Dimensions & Metrics Reference
MCF Reporting API - Query Parameter Details

**See Also**

Other Reporting API: firstdate, get ga, get realtime

**Examples**

```r
## Not run:
# get token data
authorize()
# get report data
ga_data <- get_mcf(XXXXXXX, start.date = "30daysAgo", end.date = "today",
metrics = "mcf:totalConversions",
dimensions = "mcf:source,mcf:medium")

## End(Not run)
```

---

**get_profile**

**Views (Profiles)**

**Description**

Gets a view (profile) to which the user has access.

**Usage**

```r
get_profile(accountId, webPropertyId, profileId, token)
```

**Arguments**

- **accountId**: character. Account ID to retrieve the view (profile) for.
- **webPropertyId**: character. Web property ID to retrieve the view (profile) for.
- **profileId**: character. View (Profile) ID to retrieve the view (profile) for.
- **token**: `Token2.0` class object with a valid authorization data.
### Value

The Profiles collection is a set of Profile resources, each of which describes the profile of an authenticated user.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>View (Profile) ID.</td>
</tr>
<tr>
<td>kind</td>
<td>Resource type for Analytics view (profile).</td>
</tr>
<tr>
<td>accountId</td>
<td>Account ID to which this view (profile) belongs.</td>
</tr>
<tr>
<td>webPropertyId</td>
<td>Web property ID of the form UA-XXXXX-YY to which this view (profile) belongs.</td>
</tr>
<tr>
<td>internalWebPropertyId</td>
<td>Internal ID for the web property to which this view (profile) belongs.</td>
</tr>
<tr>
<td>name</td>
<td>Name of this view (profile).</td>
</tr>
<tr>
<td>currency</td>
<td>The currency type associated with this view (profile), defaults to USD. The supported values are: ARS, AUD, BGN, BRL, CAD, CHF, CNY, CZK, DKK, EUR, GBP, HKD, HUF, IDR, INR, JPY, KRW, LTL, MXN, NOK, NZD, PHP, PLN, RUB, SEK, THB, TRY, TWD, USD, VND, ZAR</td>
</tr>
<tr>
<td>timezone</td>
<td>Time zone for which this view (profile) has been configured. Time zones are identified by strings from the TZ database.</td>
</tr>
<tr>
<td>websiteUrl</td>
<td>Website URL for this view (profile).</td>
</tr>
<tr>
<td>defaultPage</td>
<td>Default page for this view (profile).</td>
</tr>
<tr>
<td>excludeQueryParameters</td>
<td>The query parameters that are excluded from this view (profile).</td>
</tr>
<tr>
<td>siteSearchQueryParameters</td>
<td>The site search query parameters for this view (profile).</td>
</tr>
<tr>
<td>stripSiteSearchQueryParameters</td>
<td>Whether or not Analytics will strip search query parameters from the URLs in your reports.</td>
</tr>
<tr>
<td>siteSearchCategoryParameters</td>
<td>Site search category parameters for this view (profile).</td>
</tr>
<tr>
<td>stripSiteSearchCategoryParameters</td>
<td>Whether or not Analytics will strip search category parameters from the URLs in your reports.</td>
</tr>
<tr>
<td>type</td>
<td>View (Profile) type. Supported types: WEB or APP.</td>
</tr>
<tr>
<td>permissions</td>
<td>Permissions the user has for this view (profile).</td>
</tr>
<tr>
<td>created</td>
<td>Time this view (profile) was created.</td>
</tr>
<tr>
<td>updated</td>
<td>Time this view (profile) was last modified.</td>
</tr>
<tr>
<td>eCommerceTracking</td>
<td>Indicates whether ecommerce tracking is enabled for this view (profile).</td>
</tr>
<tr>
<td>enhancedECommerceTracking</td>
<td>Indicates whether enhanced ecommerce tracking is enabled for this view (profile). This property can only be enabled if ecommerce tracking is enabled. This property cannot be set on insert.</td>
</tr>
</tbody>
</table>
get_realtime

botFilteringEnabled
Indicates whether bot filtering is enabled for this view (profile).

starred
Indicates whether this view (profile) is starred or not.

permissions
All the permissions that the user has for this view (profile). These include any implied permissions (e.g., EDIT implies VIEW) or inherited permissions from the parent web property.

References
Management API - Views (Profiles) Overview

See Also
Other Management API: get_custom_dimension, get_custom_metric, get_experiment, get_filter, get_goal, get_unsampled_report, get_upload, get_webproperty, list_accounts, list_custom_data_sources, list_custom_dimensions, list_custom_metrics, list_experiments, list_filters, list_goals, list_profiles, list_segments, list_unsampled_reports, list_upload, list_webproperties

get_realtime
Real Time Reporting API

Description
Get the Analytics data from Real Time Reporting API for a view (profile).

Usage
get_realtime(profileId = getOption("rga.profileId"),
metrics = "rt:activeUsers", dimensions = NULL, sort = NULL,
filters = NULL, max.results = NULL, token)

Arguments

profileId
character. Unique table ID for retrieving Analytics data. Table ID is of the form ga:XXXX, where XXXX is the Analytics view (profile) ID. Can be obtained using the list_profiles or via the web interface Google Analytics.

metrics
character. A comma-separated list of real time metrics. E.g., "rt:activeUsers". At least one metric must be specified.

dimensions
character. A comma-separated list of real time dimensions. E.g., "rt:medium,rt:city".

sort
character. A comma-separated list of dimensions or metrics that determine the sort order for real time data.

filters
character. A comma-separated list of dimension or metric filters to be applied to real time data.

max.results
integer. The maximum number of entries to include in this feed.

token
Token2.0 class object with a valid authorization data.
get_unsampled_report

Value

A data frame including the real time data for a view (profile). Addition information about profile and request query stored in the attributes.

References

Real Time Reporting API - Dimensions & Metrics Reference

See Also

authorize

Other Reporting API: firstdate, get_ga, get_mcf

Examples

```r
## Not run:
# get token data
authorize()
# get report data
ga_data <- get_realtime(XXXXXX, metrics = "rt:activeUsers",
                       dimensions = "rt:source,rt:medium")
# get active users in real time (press Esc to abort)
while (TRUE) {
  cat("\014")
  print(get_realtime(XXXXXX, metrics = "rt:activeUsers"))
  Sys.sleep(2)
}

## End(Not run)
```

---

get_unsampled_report  Unspected Reports

Description

Returns a single unsampled report.

Usage

```r
get_unsampled_report(accountId, webPropertyId, profileId, unsampledReportId, token)
```
get_unsampled_report

Arguments

- **accountId**: character. Account ID to retrieve unsampled report for.
- **webPropertyId**: character. Web property ID to retrieve unsampled reports for.
- **profileId**: character. View (Profile) ID to retrieve unsampled report for.
- **unsampledReportId**: character. ID of the unsampled report to retrieve.
- **token**: Token2.0 class object with a valid authorization data.

Value

- **id**: Unsampled report ID.
- **kind**: Resource type for an Analytics unsampled report.
- **title**: Title of the unsampled report.
- **accountId**: Account ID to which this unsampled report belongs.
- **webPropertyId**: Web property ID to which this unsampled report belongs. The web property ID is of the form UA-XXXXX-YY.
- **profileId**: View (Profile) ID to which this unsampled report belongs.
- **start.date**: The start date for the unsampled report.
- **end.date**: The end date for the unsampled report.
- **metrics**: The metrics for the unsampled report.
- **dimensions**: The dimensions for the unsampled report.
- **filters**: The filters for the unsampled report.
- **segment**: The segment for the unsampled report.
- **status**: Status of this unsampled report. Possible values are PENDING, COMPLETED, or FAILED.
- **downloadType**: The type of download you need to use for the report data file.
- **driveDownloadDetails**: Download details for a file stored in Google Drive.
- **cloudStorageDownloadDetails**: Download details for a file stored in Google Cloud Storage.
- **created**: Time this unsampled report was created.
- **updated**: Time this unsampled report was last modified.
- **driveDownloadDetails.documentId**: Id of the document/file containing the report data.
- **cloudStorageDownloadDetails.bucketId**: Id of the bucket the file object is stored in.
- **cloudStorageDownloadDetails.objectId**: Id of the file object containing the report data.

References

Management API - Unsampled Reports Overview
get_upload

See Also

Other Management API: get_custom_dimension, get_custom_metric, get_experiment, get_filter, get_goal, get_profile, get_upload, get_webproperty, list_accounts, list_custom_data_sources, list_custom_dimensions, list_custom_metrics, list_experiments, list_filters, list_goals, list_profiles, list_segments, list_unsampled_reports, list_uploads, list_webproperties

get_upload  

Uploads

Description

List uploads to which the user has access.

Usage

get_upload(accountId, webPropertyId, customDataSourceId, uploadId, token)

Arguments

accountId  character. Account Id for the upload to retrieve.
webPropertyId  character. Web property Id for the upload to retrieve.
customDataSourceId  character. Custom data source Id for upload to retrieve.
uploadId  character. Upload Id to retrieve.
token  Token2.0 class object with a valid authorization data.

Value

The Uploads collection is a set of Upload resources, each of which describes an upload for one of the user's custom data sources. This resource should be used when uploading Dimension Widening data.

id  A unique ID for this upload.
kind  Resource type for Analytics upload.
accountId  Account Id to which this upload belongs.
customDataSourceId  Custom data source Id to which this data import belongs.
status  Upload status. Possible values: PENDING, COMPLETED, FAILED, DELETING, DELETED.
errors  Data import errors collection.

References

Management API - Uploads Overview
get_webproperty

Description

Gets a property to which the user has access.

Usage

get_webproperty(accountId, webPropertyId, token)

Arguments

accountId character. Account ID to retrieve the web property for.
webPropertyId character. ID to retrieve the web property for.
token Token2.0 class object with a valid authorization data.

Value

The Webproperties collection is a set of Webproperty resources, each of which describes a web property available to an authenticated user.

id Web property ID of the form UA-XXXXX-YY.
kind Resource type for Analytics WebProperty.
accountId Account ID to which this web property belongs.
internalWebPropertyId Internal ID for this web property.
name Name of this web property.
websiteUrl Website url for this web property.
level Level for this web property.
profileCount View (Profile) count for this web property.
industryVertical The industry vertical/category selected for this web property. If this field is set, the correct values are: UNSPECIFIED ARTS_AND_ENTERTAINMENT AUTOMOTIVE BEAUTY_AND_FITNESS BOOKS_AND_LITERATURE BUSINESS_AND_INDUSTRIAL_MARKETS COMPUTERS_AND_ELECTRONICS FINANCE FOOD_AND_DRINK GAMES HEALTHCARE HOBBIES_AND_LEISURE HOME_AND_GARDEN INTERNET_AND_TELECOM JOBS_AND_EDUCATION LAW_AND_GOVERNMENT NEWS ONLINE_COMMUNITIES OTHER PEOPLE_AND_SOCIETY PETS_AND_ANIMALS REAL_ESTATE REFERENCE SCIENCE SHOPPING SPORTS TRAVEL.
defaultProfileId

Default view (profile) ID.

permissions

Permissions the user has for this web property.

created

Time this web property was created.

updated

Time this web property was last modified.

starred

Indicates whether this web property is starred or not.

permissions

All the permissions that the user has for this web property. These include any implied permissions (e.g., EDIT implies VIEW) or inherited permissions from the parent account.

References

Management API - Web Properties Overview

See Also

Other Management API: get_custom_dimension, get_custom_metric, get_experiment, get_filter, get_goal, get_profile, get_unsampled_report, get_upload, list_accounts, list_custom_data_sources, list_custom_dimensions, list_custom_metrics, list_experiments, list_filters, list_goals, list_profiles, list_segments, list_unsampled_reports, list_uploads, list_webproperties

---

list_accounts Accounts

Description

Lists all accounts to which the user has access.

Usage

list_accounts(start.index = NULL, max.results = NULL, token)

Arguments

start.index integer. An index of the first account to retrieve. Use this parameter as a pagination mechanism along with the max-results parameter.

max.results integer. The maximum number of accounts to include in this response.

token Token2.0 class object with a valid authorization data.
Value

The Accounts collection is a set of Account resources, each of which describes the account of an authenticated user.

- **id**: Account ID.
- **kind**: Resource type for Analytics account.
- **name**: Account name.
- **permissions**: Permissions the user has for this account.
- **created**: Time the account was created.
- **updated**: Time the account was last modified.
- **starred**: Indicates whether this account is starred or not.
- **permissions**: All the permissions that the user has for this account. These include any implied permissions (e.g., EDIT implies VIEW).

References

Management API - Accounts Overview

See Also

Other Management API: `get_custom_dimension`, `get_custom_metric`, `get_experiment`, `get_filter`, `get_goal`, `get_profile`, `get_unsampled_report`, `get_upload`, `get_webproperty`, `list_custom_data_sources`, `list_custom_dimensions`, `list_custom_metrics`, `list_experiments`, `list_filters`, `list_goals`, `list_profiles`, `list_segments`, `list_unsampled_reports`, `list_uploads`, `list_webproperties`

---

**list_custom_data_sources**

*Custom Data Sources*

**Description**

List custom data sources to which the user has access.

**Usage**

```python
list_custom_data_sources(accountId, webPropertyId, start.index = NULL, max.results = NULL, token)
```

**Arguments**

- **accountId**: character. Account Id for the custom data sources to retrieve.
- **webPropertyId**: character. Web property Id for the custom data sources to retrieve.
- **start.index**: integer. A 1-based index of the first custom data source to retrieve. Use this parameter as a pagination mechanism along with the max-results parameter.
- **max.results**: integer. The maximum number of custom data sources to include in this response.
- **token**: `Token2.0` class object with a valid authorization data.
Value

The customDataSources collection is a set of customDataSource resources, each of which describes a custom data source available to an authenticated user.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Custom data source ID.</td>
</tr>
<tr>
<td>kind</td>
<td>Resource type for Analytics custom data source.</td>
</tr>
<tr>
<td>accountId</td>
<td>Account ID to which this custom data source belongs.</td>
</tr>
<tr>
<td>webPropertyId</td>
<td>Web property ID of the form UA-XXXXX-YY to which this custom data source belongs.</td>
</tr>
<tr>
<td>name</td>
<td>Name of this custom data source.</td>
</tr>
<tr>
<td>description</td>
<td>Description of custom data source.</td>
</tr>
<tr>
<td>type</td>
<td>Type of the custom data source.</td>
</tr>
<tr>
<td>uploadType</td>
<td>The resource type with which the custom data source can be used to upload data; it can have the values &quot;analytics#uploads&quot; or &quot;analytics#dailyUploads&quot;. Custom data sources with this property set to &quot;analytics#dailyUploads&quot; are deprecated and should be migrated using the uploads resource.</td>
</tr>
<tr>
<td>importBehavior</td>
<td>How cost data metrics are treated when there are duplicate keys. If this property is set to &quot;SUMMATION&quot; the values are added; if this property is set to &quot;OVERWRITE&quot; the most recent value overwrites the existing value.</td>
</tr>
<tr>
<td>profilesLinked</td>
<td>IDs of views (profiles) linked to the custom data source.</td>
</tr>
<tr>
<td>created</td>
<td>Time this custom data source was created.</td>
</tr>
<tr>
<td>updated</td>
<td>Time this custom data source was last modified.</td>
</tr>
</tbody>
</table>

References

Management API - Custom Data Sources Overview

See Also

Other Management API: get_custom_dimension, get_custom_metric, get_experiment, get_filter, get_goal, get_profile, get_unsampled_report, get_upload, get_webproperty, list_accounts, list_custom_dimensions, list_custom_metrics, list_experiments, list_filters, list_goals, list_profiles, list_segments, list_unsampled_reports, list_uploads, list_webproperties

Custom Dimensions

Description

Lists custom dimensions to which the user has access.
**list_custom_dimensions**

Usage

```javascript
list_custom_dimensions(accountId, webPropertyId, startIndex = NULL,
                       maxResults = NULL, token)
```

Arguments

- `accountId`: character. Account ID for the custom dimensions to retrieve.
- `webPropertyId`: character. Web property ID for the custom dimensions to retrieve.
- `startIndex`: integer. An index of the first entity to retrieve. Use this parameter as a pagination mechanism along with the `maxResults` parameter.
- `maxResults`: integer. The maximum number of custom dimensions to include in this response.
- `token`: `Token2.0` class object with a valid authorization data.

Value

- `kind`: Kind value for a custom dimension. Set to "analytics#customDimension". It is a read-only field.
- `id`: Custom dimension ID.
- `accountId`: Account ID.
- `webPropertyId`: Property ID.
- `name`: Name of the custom dimension.
- `index`: Index of the custom dimension.
- `scope`: Scope of the custom dimension: HIT, SESSION, USER or PRODUCT.
- `active`: Boolean indicating whether the custom dimension is active.
- `created`: Time the custom dimension was created.
- `updated`: Time the custom dimension was last modified.

References

- Management API - Custom Dimensions Overview

See Also

Other Management API: `get_custom_dimension`, `get_custom_metric`, `get_experiment`, `get_filter`, `get_goal`, `get_profile`, `get_unsampled_report`, `get_upload`, `get_webproperty`, `list_accounts`, `list_custom_data_sources`, `list_custom_metrics`, `list_experiments`, `list_filters`, `list_goals`, `list_profiles`, `list_segments`, `list_unsampled_reports`, `list_uploads`, `list_webproperties`
list_custom_metrics  Custom Metrics

Description
Lists custom metrics to which the user has access.

Usage
list_custom_metrics(accountId, webPropertyId, start.index = NULL,
                    max.results = NULL, token)

Arguments
- accountId: character. Account ID for the custom metrics to retrieve.
- webPropertyId: character. Web property ID for the custom metrics to retrieve.
- start.index: integer. An index of the first entity to retrieve. Use this parameter as a pagination mechanism along with the max-results parameter.
- max.results: integer. The maximum number of custom metrics to include in this response.
- token: Token2.0 class object with a valid authorization data.

Value
- kind: Kind value for a custom metric. Set to "analytics#customMetric". It is a readonly field.
- id: Custom metric ID.
- accountId: Account ID.
- webPropertyId: Property ID.
- name: Name of the custom metric.
- index: Index of the custom metric.
- scope: Scope of the custom metric: HIT or PRODUCT.
- active: Boolean indicating whether the custom metric is active.
- type: Data type of custom metric.
- min_value: Min value of custom metric.
- max_value: Max value of custom metric.
- created: Time the custom metric was created.
- updated: Time the custom metric was last modified.

References
Management API - Custom Metrics Overview
list_dimsmets

Lists all the dimensions and metrics for a particular report type

Description

This dataset represents all of the dimensions and metrics for the reporting API with their attributes. Attributes returned include UI name, description, segments support, etc.

Usage

list_dimsmets(reportType = "ga")

Arguments

reportType character. Report type. Allowed Values: "ga". Where "ga" corresponds to the Core Reporting API.

Value

A data.frame contains dimensions and metrics for a particular report type.

- **id** Parameter name.
- **type** The type of column: DIMENSION, METRIC.
- **dataType** The type of data this column represents: STRING, INTEGER, PERCENT, TIME, CURRENCY, FLOAT.
- **group** The dimensions/metrics group the column belongs to.
- **status** The status of the column: PUBLIC, DEPRECATED.
- **uiName** The name/label of the column used in user interfaces (UI).
- **description** The full description of the column.
- **allowedInSegments** Indicates whether the column can be used in the segment query parameter.
- **addedInApiVersion** API version with this param was added.
- **replacedBy** The replacement column to use for a column with a DEPRECATED status.
- **calculation** Only available for calculated metrics. This shows how the metric is calculated.
- **minTemplateIndex** Only available for templatized columns. This is the minimum index for the column.
maxTemplateName

Only available for templatized columns. This is the maximum index for the column.

premiumMinTemplateName

Only available for templatized columns. This is the minimum index for the column for premium properties.

premiumMaxTemplateName

Only available for templatized columns. This is the maximum index for the column for premium properties.

References

Google Analytics Metadata API
Core Reporting API - Dimensions & Metrics Reference

See Also

shiny_dimsmets get_ga

Examples

```r
## Not run:
ga_meta <- list_dimsmets("ga")
# a count of parameters types
table(ga_meta$type)
# parameters groups
table(ga_meta$group)
# get a deprecated parameters was replaced by
subset(ga_meta, status == "DEPRECATED", c(id, replacedBy))
# get a calculation metrics
subset(ga_meta, !is.na(calculation), c(id, calculation))
# get a not deprecated metrics from user group
subset(ga_meta, group == "User" & type == "METRIC" & status != "DEPRECATED", id)
# get parameters allowed in segments
subset(ga_meta, allowedInSegments, id)

## End(Not run)
```

---

**list_experiments**

**Experiments**

**Description**

Lists experiments to which the user has access.

**Usage**

```r
list_experiments(accountId, webPropertyId, profileId, startIndex = NULL, maxResults = NULL, token)
```
### Arguments

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>accountId</td>
<td>character. Account ID to retrieve experiments for.</td>
</tr>
<tr>
<td>webPropertyId</td>
<td>character. Web property ID to retrieve experiments for.</td>
</tr>
<tr>
<td>profileId</td>
<td>character. View (Profile) ID to retrieve experiments for.</td>
</tr>
<tr>
<td>start.index</td>
<td>integer. An index of the first experiment to retrieve. Use this parameter as a pagination mechanism along with the max-results parameter.</td>
</tr>
<tr>
<td>max.results</td>
<td>integer. The maximum number of experiments to include in this response.</td>
</tr>
<tr>
<td>token</td>
<td>Token2.0 class object with a valid authorization data.</td>
</tr>
</tbody>
</table>

### Value

The experiments collection is a set of experiment resources, each of which describes a content experiment available to an authenticated user.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Experiment ID. Required for patch and update. Disallowed for create.</td>
</tr>
<tr>
<td>kind</td>
<td>Resource type for an Analytics experiment. This field is read-only.</td>
</tr>
<tr>
<td>accountId</td>
<td>Account ID to which this experiment belongs. This field is read-only.</td>
</tr>
<tr>
<td>webPropertyId</td>
<td>Web property ID to which this experiment belongs. The web property ID is of the form UA-XXXXX-YY. This field is read-only.</td>
</tr>
<tr>
<td>internalWebPropertyId</td>
<td>Internal ID for the web property to which this experiment belongs. This field is read-only.</td>
</tr>
<tr>
<td>profileId</td>
<td>View (Profile) ID to which this experiment belongs. This field is read-only.</td>
</tr>
<tr>
<td>name</td>
<td>Experiment name. This field may not be changed for an experiment whose status is ENDED. This field is required when creating an experiment.</td>
</tr>
<tr>
<td>description</td>
<td>Notes about this experiment.</td>
</tr>
<tr>
<td>created</td>
<td>Time the experiment was created. This field is read-only.</td>
</tr>
<tr>
<td>updated</td>
<td>Time the experiment was last modified. This field is read-only.</td>
</tr>
<tr>
<td>objectiveMetric</td>
<td>The metric that the experiment is optimizing. Valid values: &quot;ga:goal(n)Completions&quot;, &quot;ga:adsenseAdsClicks&quot;, &quot;ga:adsenseAdsViewed&quot;, &quot;ga:adsenseRevenue&quot;, &quot;ga:bounces&quot;, &quot;ga:pageviews&quot;, &quot;ga:sessionDuration&quot;, &quot;ga:transactions&quot;, &quot;ga:transactionRevenue&quot;. This field is required if status is &quot;RUNNING&quot; and servingFramework is one of &quot;REDIRECT&quot; or &quot;API&quot;.</td>
</tr>
<tr>
<td>optimizationType</td>
<td>Whether the objectiveMetric should be minimized or maximized. Possible values: &quot;MAXIMUM&quot;, &quot;MINIMUM&quot;. Optional–defaults to &quot;MAXIMUM&quot;. Cannot be specified without objectiveMetric. Cannot be modified when status is &quot;RUNNING&quot; or &quot;ENDED&quot;.</td>
</tr>
<tr>
<td>status</td>
<td>Experiment status. Possible values: &quot;DRAFT&quot;, &quot;READY_TO_RUN&quot;, &quot;RUNNING&quot;, &quot;ENDED&quot;. Experiments can be created in the &quot;DRAFT&quot;, &quot;READY_TO_RUN&quot; or &quot;RUNNING&quot; state. This field is required when creating an experiment.</td>
</tr>
<tr>
<td>winnerFound</td>
<td>Boolean specifying whether a winner has been found for this experiment. This field is read-only.</td>
</tr>
</tbody>
</table>
**startTime**  
The starting time of the experiment (the time the status changed from READY_TO_RUN to RUNNING). This field is present only if the experiment has started. This field is read-only.

**endTime**  
The ending time of the experiment (the time the status changed from RUNNING to ENDED). This field is present only if the experiment has ended. This field is read-only.

**reasonExperimentEnded**  
Why the experiment ended. Possible values: "STOPPED_BY_USER", "WINNER_FOUND", "EXPERIMENT_EXPIRED", "ENDED_WITH_NO_WINNER", "GOAL_OBJECTIVE_CHANGED", "ENDED_WITH_NO_WINNER" means that the experiment didn’t expire but no winner was projected to be found. If the experiment status is changed via the API to ENDED this field is set to STOPPED_BY_USER. This field is read-only.

**rewriteVariationUrlsAsOriginal**  
Boolean specifying whether variations URLs are rewritten to match those of the original. This field may not be changed for an experiment whose status is ENDED.

**winnerConfidenceLevel**  
A floating-point number between 0 and 1. Specifies the necessary confidence level to choose a winner. This field may not be changed for an experiment whose status is ENDED.

**minimumExperimentLengthInDays**  
An integer number in [3, 90]. Specifies the minimum length of the experiment. Can be changed for a running experiment. This field may not be changed for an experiment whose status is ENDED.

**trafficCoverage**  
A floating-point number between 0 and 1. Specifies the fraction of the traffic that participates in the experiment. Can be changed for a running experiment. This field may not be changed for an experiment whose status is ENDED.

**equalWeighting**  
Boolean specifying whether to distribute traffic evenly across all variations. If the value is False, content experiments follows the default behavior of adjusting traffic dynamically based on variation performance. Optional – defaults to False. This field may not be changed for an experiment whose status is ENDED.

**snippet**  
The snippet of code to include on the control page(s). This field is read-only.

**variations**  
Array of variations. The first variation in the array is the original. The number of variations may not change once an experiment is in the RUNNING state. At least two variations are required before status can be set to RUNNING.

**servingFramework**  
The framework used to serve the experiment variations and evaluate the results. One of: REDIRECT: Google Analytics redirects traffic to different variation pages, reports the chosen variation and evaluates the results. API: Google Analytics chooses and reports the variation to serve and evaluates the results; the caller is responsible for serving the selected variation. EXTERNAL: The variations will be served externally and the chosen variation reported to Google Analytics. The caller is responsible for serving the selected variation and evaluating the results.
list_filters

editableInGaUi If true, the end user will be able to edit the experiment via the Google Analytics user interface.

variations.name The name of the variation. This field is required when creating an experiment. This field may not be changed for an experiment whose status is ENDED.

variations.url The URL of the variation. This field may not be changed for an experiment whose status is RUNNING or ENDED.

variations.status Status of the variation. Possible values: "ACTIVE", "INACTIVE". INACTIVE variations are not served. This field may not be changed for an experiment whose status is ENDED.

variations.weight Weight that this variation should receive. Only present if the experiment is running. This field is read-only.

variations.won True if the experiment has ended and this variation performed (statistically) significantly better than the original. This field is read-only.

References

Management API - Experiments Overview

See Also

Other Management API: get_custom_dimension, get_custom_metric, get_experiment, get_filter, get_goal, get_profile, get_unsampled_report, get_upload, get_webproperty, list_accounts, list_custom_data_sources, list_custom_dimensions, list_custom_metrics, list_filters, list_goals, list_profiles, list_segments, list_unsampled_reports, list_uploads, list_webproperties

list_filters Filters

Description

Lists all filters for an account

Usage

list_filters(accountId, start.index = NULL, max.results = NULL, token)

Arguments

accountId character. Account ID to retrieve filters for.

start.index integer. An index of the first entity to retrieve. Use this parameter as a pagination mechanism along with the max-results parameter.

max.results integer. The maximum number of filters to include in this response.

token Token2.0 class object with a valid authorization data.
list_filters

Value

The Filters collection is a set of Filter resources, each of which describes a filter which can be applied to a View (profile).

- **id**: Filter ID.
- **kind**: Resource type for Analytics filter.
- **accountId**: Account ID to which this filter belongs.
- **name**: Name of this filter.
- **type**: Type of this filter. Possible values are INCLUDE, EXCLUDE, LOWERCASE, UPPERCASE, SEARCH_AND_REPLACE and ADVANCED.
- **created**: Time this filter was created.
- **updated**: Time this filter was last modified.
- **includeDetails**: Details for the filter of the type INCLUDE.
- **excludeDetails**: Details for the filter of the type EXCLUDE.
- **lowercaseDetails**: Details for the filter of the type LOWER.
- **uppercaseDetails**: Details for the filter of the type UPPER.
- **searchAndReplaceDetails**: Details for the filter of the type SEARCH_AND_REPLACE.
- **advancedDetails**: Details for the filter of the type ADVANCED.
- **includeDetails.kind**: Kind value for filter expression

Field to filter. Possible values: Content and Traffic PAGE_REQUEST_URI, PAGE_HOSTNAME, PAGE_TITLE, REFERRAL, COST_DATA_URI (Campaign target URL), HIT_TYPE, INTERNAL_SEARCH_TERM, INTERNAL_SEARCH_TYPE, SOURCE_PROPERTY_TRACKING_ID, Campaign or AdGroup CAMPAIGN_SOURCE, CAMPAIGN_MEDIUM, CAMPAIGN_NAME, CAMPAIGN_AD_GROUP, CAMPAIGN_TERM, CAMPAIGN_CONTENT, CAMPAIGN_CODE, CAMPAIGN_REFERRAL_PATH, E-Commerce TRANSACTION_COUNTRY, TRANSACTION_REGION, TRANSACTION_CITY, TRANSACTION_AFFILIATION (Store or order location), ITEM_NAME, ITEM_CODE, ITEM_VARIATION, TRANSACTION_ID, TRANSACTION_CURRENCY_CODE, PRODUCT_ACTION_TYPE, Audience/Users BROWSER, BROWSER_VERSION, BROWSER_SIZE, PLATFORM, PLATFORM_VERSION, LANGUAGE, SCREEN_RESOLUTION, SCREENCOLORS, JAVA_ENABLED (Boolean Field), FLASH_VERSION, GEO_SPEED (Connection speed), VISITOR_TYPE, GEO_ORGANIZATION (ISP organization), GEO_DOMAIN, GEO_IP_ADDRESS, GEO_IP_VERSION, Location GEO_COUNTRY, GEO_REGION, GEO_CITY, Event EVENT_CATEGORY, EVENT_ACTION, EVENT_LABEL, Other CUSTOM_FIELD_1, CUSTOM_FIELD_2, USER_DEFINED_VALUE, Application APP_ID, APP_INSTALLER_ID, APP_NAME, APP_VERSION, SCREEN, IS_APP (Boolean Field), IS_FATAL_EXCEPTION (Boolean Field), EXCEPTION_DESCRIPTION, Mobile device IS_MOBILE (Boolean Field, Deprecated. Use DEVICE_CATEGORY=mobile), IS_TABLET
includeDetails.matchType
Match type for this filter. Possible values are BEGINS_WITH, EQUAL, ENDS_WITH, CONTAINS, or MATCHES. GEO_DOMAIN, GEO_IP_ADDRESS, PAGE_REQUEST_URI, or PAGE_HOSTNAME filters can use any match type; all other filters must use MATCHES.

includeDetails.expressionValue
Filter expression value

includeDetails.casesensitive
Determines if the filter is case sensitive.

includeDetails.fieldIndex
The Index of the custom dimension. Set only if the field is a is CUSTOM_DIMENSION.

excludeDetails.kind
Kind value for filter expression

excludeDetails.field
Field to filter. Possible values: Content and Traffic PAGE_REQUEST_URI, PAGE_HOSTNAME, PAGE_TITLE, REFERRAL, COST_DATA_URI (Campaign target URL), HIT_TYPE, INTERNAL_SEARCH_TERM, INTERNAL_SEARCH_TYPE, SOURCE_PROPERTY_TRACKING_ID, Campaign or AdGroup CAMPAIGN_SOURCE, CAMPAIGN_MEDIUM, CAMPAIGN_NAME, CAMPAIGN_AD_GROUP, CAMPAIGN_TERM, CAMPAIGN_CONTENT, CAMPAIGN_CODE, CAMPAIGN_REFERRAL_PATH, E-Commerce TRANSACTION_COUNTRY, TRANSACTION_REGION, TRANSACTION_CITY, TRANSACTION_AFFILIATION (Store or order location), ITEM_NAME, ITEM_CODE, ITEM_VARIATION, TRANSACTION_ID, TRANSACTION_CURRENCY_CODE, PRODUCT_ACTION_TYPE, Audience/Users BROWSER, BROWSER_VERSION, BROWSER_SIZE, PLATFORM, PLATFORM_VERSION, LANGUAGE, SCREEN_RESOLUTION, SCREEN_COLORS, JAVA_ENABLED (Boolean Field), FLASH_VERSION, GEO_SPEED (Connection speed), VISITOR_TYPE, GEO_ORGANIZATION (ISP organization), GEO_DOMAIN, GEO_IP_ADDRESS, GEO_IP_VERSION, Location GEO_COUNTRY, GEO_REGION, GEO_CITY, Event EVENT_CATEGORY, EVENT_ACTION, EVENT_LABEL, Other CUSTOM_FIELD_1, CUSTOM_FIELD_2, USER_DEFINED_VALUE, Application APP_ID, APP_INSTALLER_ID, APP_NAME, APP_VERSION, SCREEN, IS_APP (Boolean Field), IS_FATAL_EXCEPTION (Boolean Field), EXCEPTION_DESCRIPTION, Mobile device IS_MOBILE (Boolean Field, Deprecated. Use DEVICECATEGORY=mobile), IS_TABLET (Boolean Field, Deprecated. Use DEVICECATEGORY=tablet), DEVICECATEGORY, MOBILE_HAS_QWERTY_KEYBOARD (Boolean Field), MOBILE_HAS_NFC_SUPPORT (Boolean Field), MOBILE_HAS_CELLULAR_RADIO (Boolean Field), MOBILE_HAS_WIFI_SUPPORT (Boolean Field), MOBILE_BRAND_NAME, MOBILE_MODEL_NAME, MOBILE_MARKETING_NAME, MOBILE_POINTING_METHOD, Social SOCIAL_NETWORK, SOCIAL_ACTION, SOCIAL_ACTION_TARGET,

excludeDetails.matchType
Match type for this filter. Possible values are BEGINS_WITH, EQUAL, ENDS_WITH,
CONTAINS, or MATCHES. GEO_DOMAIN, GEO_IP_ADDRESS, PAGE_REQUEST_URI, or PAGE_HOSTNAME filters can use any match type; all other filters must use MATCHES.

excludeDetails.expressionValue
Filter expression value

excludeDetails.caseSensitive
Determines if the filter is case sensitive.

excludeDetails.fieldIndex
The Index of the custom dimension. Set only if the field is a is CUSTOM_DIMENSION.

lowercaseDetails.field
Field to use in the filter.

lowercaseDetails.fieldIndex
The Index of the custom dimension. Required if field is a CUSTOM_DIMENSION.

uppercaseDetails.field
Field to use in the filter.

uppercaseDetails.fieldIndex
The Index of the custom dimension. Required if field is a CUSTOM_DIMENSION.

searchAndReplaceDetails.field
Field to use in the filter.

searchAndReplaceDetails.fieldIndex
The Index of the custom dimension. Required if field is a CUSTOM_DIMENSION.

searchAndReplaceDetails.searchString
Term to search.

searchAndReplaceDetails.replaceString
Term to replace the search term with.

searchAndReplaceDetails.caseSensitive
Determines if the filter is case sensitive.

advancedDetails.fieldA
Field A.

advancedDetails.fieldAIndex
The Index of the custom dimension. Required if field is a CUSTOM_DIMENSION.

advancedDetails.extractA
Expression to extract from field A.

advancedDetails.fieldB
Field B.

advancedDetails.fieldBIndex
The Index of the custom dimension. Required if field is a CUSTOM_DIMENSION.

advancedDetails.extractB
Expression to extract from field B.

advancedDetails.outputToField
Output field.

advancedDetails.outputToFieldIndex
The Index of the custom dimension. Required if field is a CUSTOM_DIMENSION.

advancedDetails.outputConstructor
Expression used to construct the output value.
advancedDetails.fieldARequired
Indicates if field A is required to match.

advancedDetails.fieldBRequired
Indicates if field B is required to match.

advancedDetails.overrideOutputField
Indicates if the existing value of the output field, if any, should be overridden by the output expression.

advancedDetails.caseSensitive
Indicates if the filter expressions are case sensitive.

References
Management API - Filters Overview

See Also
Other Management API: get_custom_dimension, get_custom_metric, get_experiment, get_filter, get_goal, get_profile, get_unsampled_report, get_upload, get_webproperty, list_accounts, list_custom_data_sources, list_custom_dimensions, list_custom_metrics, list_experiments, list_goals, list_profiles, list_segments, list_unsampled_reports, list_uploads, list_webproperties

list_goals  Goals

Description
Lists goals to which the user has access.

Usage
list_goals(accountId = "~all", webPropertyId = "~all", profileId = "~all", start.index = NULL, max.results = NULL, token)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>accountId</td>
<td>character. Account ID to retrieve goals for. Can either be a specific account ID or '~all', which refers to all the accounts that user has access to.</td>
</tr>
<tr>
<td>webPropertyId</td>
<td>character. Web property ID to retrieve goals for. Can either be a specific web property ID or '~all', which refers to all the web properties that user has access to.</td>
</tr>
<tr>
<td>profileId</td>
<td>character. View (Profile) ID to retrieve goals for. Can either be a specific view (profile) ID or '~all', which refers to all the views (profiles) that user has access to.</td>
</tr>
<tr>
<td>start.index</td>
<td>integer. An index of the first goal to retrieve. Use this parameter as a pagination mechanism along with the max-results parameter.</td>
</tr>
<tr>
<td>max.results</td>
<td>integer. The maximum number of goals to include in this response.</td>
</tr>
<tr>
<td>token</td>
<td>Token2.0 class object with a valid authorization data.</td>
</tr>
</tbody>
</table>
Value

A Goals resource describes a goal for one of a user's profiles.

- **id**: Goal ID.
- **kind**: Resource type for an Analytics goal.
- **accountId**: Account ID to which this goal belongs.
- **webPropertyId**: Web property ID to which this goal belongs. The web property ID is of the form UA-XXXXX-YY.
- **internalWebPropertyId**: Internal ID for the web property to which this goal belongs.
- **profileId**: View (Profile) ID to which this goal belongs.
- **name**: Goal name.
- **value**: Goal value.
- **active**: Determines whether this goal is active.
- **type**: Goal type. Possible values are URL_DESTINATION, VISIT_TIME_ON_SITE, VISIT_NUM_PAGES, and EVENT.
- **created**: Time this goal was created.
- **updated**: Time this goal was last modified.
- **urlDestinationDetails**: Details for the goal of the type URL_DESTINATION.
- **visitingOnSiteDetails**: Details for the goal of the type VISIT_TIME_ON_SITE.
- **visitNumPagesDetails**: Details for the goal of the type VISIT_NUM_PAGES.
- **eventDetails**: Details for the goal of the type EVENT.
- **urlDestinationDetails.url**: URL for this goal.
- **urlDestinationDetails.caseSensitive**: Determines if the goal URL must exactly match the capitalization of visited URLs.
- **urlDestinationDetails.matchType**: Match type for the goal URL. Possible values are HEAD, EXACT, or REGEX.
- **urlDestinationDetails.firstStepRequired**: Determines if the first step in this goal is required.
- **urlDestinationDetails.steps.number**: Step number.
- **urlDestinationDetails.steps.name**: Step name.
- **urlDestinationDetails.steps.url**: URL for this step.
- **visitingOnSiteDetails.comparisonType**: Type of comparison. Possible values are LESS_THAN or GREATER_THAN.
visitTimeOnSiteDetails.comparisonValue
    Value used for this comparison.
visitNumPagesDetails.comparisonType
    Type of comparison. Possible values are LESS_THAN, GREATER_THAN, or EQUAL.
visitNumPagesDetails.comparisonValue
    Value used for this comparison.
eventDetails.useEventValue
    Determines if the event value should be used as the value for this goal.
eventDetails.eventConditions.type
    Type of this event condition. Possible values are CATEGORY, ACTION, LABEL, or VALUE.
eventDetails.eventConditions.matchType
    Type of the match to be performed. Possible values are REGEXP, BEGINS_WITH, or EXACT.
eventDetails.eventConditions.expression
    Expression used for this match.
eventDetails.eventConditions.comparisonType
    Type of comparison. Possible values are LESS_THAN, GREATER_THAN or EQUAL.
eventDetails.eventConditions.comparisonValue
    Value used for this comparison.

References

Management API - Goals Overview

See Also

Other Management API: get_custom_dimension, get_custom_metric, get_experiment, get_filter, get_goal, get_profile, get_unsampled_report, get_upload, get_webproperty, list_accounts, list_custom_data_sources, list_custom_dimensions, list_custom_metrics, list_experiments, list_filters, list_profiles, list_segments, list_unsampled_reports, list_uploads, list_webproperties

list_profiles

Views (Profiles)

Description

Lists views (profiles) to which the user has access.

Usage

list_profiles(accountId = "~all", webPropertyId = "~all", start.index = NULL, max.results = NULL, token)
Arguments

accountID character. Account ID for the view (profiles) to retrieve. Can either be a specific account ID or ‘~all’, which refers to all the accounts to which the user has access.

webPropertyId character. Web property ID for the views (profiles) to retrieve. Can either be a specific web property ID or ‘~all’, which refers to all the web properties to which the user has access.

startIndex integer. An index of the first entity to retrieve. Use this parameter as a pagination mechanism along with the max-results parameter.

maxResults integer. The maximum number of views (profiles) to include in this response.

token Token2.0 class object with a valid authorization data.

Value

The Profiles collection is a set of Profile resources, each of which describes the profile of an authenticated user.

id View (Profile) ID.

kind Resource type for Analytics view (profile).

accountId Account ID to which this view (profile) belongs.

webPropertyId Web property ID of the form UA-XXXXX-YY to which this view (profile) belongs.

internalWebPropertyId Internal ID for the web property to which this view (profile) belongs.

name Name of this view (profile).

currency The currency type associated with this view (profile), defaults to USD. The supported values are: ARS, AUD, BGN, BRL, CAD, CHF, CNY, CZK, DKK, EUR, GBP, HKD, HUF, IDR, INR, JPY, KRW, LTL, MXN, NOK, NZD, PHP, PLN, RUB, SEK, THB, TRY, TWD, USD, VND, ZAR

timezone Time zone for which this view (profile) has been configured. Time zones are identified by strings from the TZ database.

websiteUrl Website URL for this view (profile).

defaultPage Default page for this view (profile).

excludeQueryParameters The query parameters that are excluded from this view (profile).

siteSearchQueryParameters The site search query parameters for this view (profile).

stripSiteSearchQueryParameters Whether or not Analytics will strip search query parameters from the URLs in your reports.

siteSearchCategoryParameters Site search category parameters for this view (profile).

stripSiteSearchCategoryParameters Whether or not Analytics will strip search category parameters from the URLs in your reports.
type          View (Profile) type. Supported types: WEB or APP.
permissions   Permissions the user has for this view (profile).
created       Time this view (profile) was created.
updated       Time this view (profile) was last modified.
eCommerceTracking
              Indicates whether ecommerce tracking is enabled for this view (profile).
enhancedECommerceTracking
              Indicates whether enhanced ecommerce tracking is enabled for this view (profile). This property can only be enabled if ecommerce tracking is enabled. This property cannot be set on insert.
botFilteringEnabled
              Indicates whether bot filtering is enabled for this view (profile).
starred       Indicates whether this view (profile) is starred or not.
permissions   All the permissions that the user has for this view (profile). These include any implied permissions (e.g., EDIT implies VIEW) or inherited permissions from the parent web property.

References

Management API - Views (Profiles) Overview

See Also

Other Management API: get_custom_dimension, get_custom_metric, get_experiment, get_filter, get_goal, get_profile, get_unsampled_report, get_upload, get_webproperty, list_accounts, list_custom_data_sources, list_custom_dimensions, list_custom_metrics, list_experiments, list_filters, list_goals, list_segments, list_unsampled_reports, list_uploads, list_webproperties

<table>
<thead>
<tr>
<th>list_segments</th>
<th>Segments</th>
</tr>
</thead>
</table>

Description

Lists segments to which the user has access.

Usage

list_segments(start.index = NULL, max.results = NULL, token)

Arguments

start.index     integer. An index of the first segment to retrieve. Use this parameter as a pagination mechanism along with the max-results parameter.
max.results     integer. The maximum number of segments to include in this response.
token       Token2.0 class object with a valid authorization data.
Value

The Segments collection is a set of Segment resources, each of which describes one of the user’s default advanced segments or custom segments.

id
Segment ID.

kind
Resource type for Analytics segment.

segmentId
Segment ID. Can be used with the 'segment' parameter in Core Reporting API.

name
Segment name.

definition
Segment definition.

type
Type for a segment. Possible values are "BUILT_IN" or "CUSTOM".

created
Time the segment was created.

updated
Time the segment was last modified.

References
Management API - Segments Overview

See Also
Other Management API: get_custom_dimension, get_custom_metric, get_experiment, get_filter, get_goal, get_profile, get_unsampled_report, get_upload, get_webproperty, list_accounts, list_custom_data_sources, list_custom_dimensions, list_custom_metrics, list_experiments, list_filters, list_goals, list_profiles, list_unsampled_reports, list_uploads, list_webproperties

list_unsampled_reports

Unsampled Reports

Description
Lists unsampled reports to which the user has access.

Usage

list_unsampled_reports(accountId, webPropertyId, profileId, start.index = NULL, max.results = NULL, token)

Arguments

accountId
character. Account ID to retrieve unsampled reports for. Must be a specific account ID, ~all is not supported.

webPropertyId
character. Web property ID to retrieve unsampled reports for. Must be a specific web property ID, ~all is not supported.

profileId
character. View (Profile) ID to retrieve unsampled reports for. Must be a specific view (profile) ID, ~all is not supported.
start_index integer. An index of the first unsampled report to retrieve. Use this parameter as a pagination mechanism along with the max-results parameter.

max_results integer. The maximum number of unsampled reports to include in this response.

token Token2.0 class object with a valid authorization data.

Value

id Unsampled report ID.
kind Resource type for an Analytics unsampled report.
title Title of the unsampled report.
accountId Account ID to which this unsampled report belongs.
webPropertyId Web property ID to which this unsampled report belongs. The web property ID is of the form UA-XXXXX-YY.
profileId View (Profile) ID to which this unsampled report belongs.
start.date The start date for the unsampled report.
end.date The end date for the unsampled report.
metrics The metrics for the unsampled report.
dimensions The dimensions for the unsampled report.
filters The filters for the unsampled report.
segment The segment for the unsampled report.
status Status of this unsampled report. Possible values are PENDING, COMPLETED, or FAILED.
downloadType The type of download you need to use for the report data file.
driveDownloadDetails Download details for a file stored in Google Drive.
cloudStorageDownloadDetails Download details for a file stored in Google Cloud Storage.
created Time this unsampled report was created.
updated Time this unsampled report was last modified.
driveDownloadDetails.documentId Id of the document/file containing the report data.
cloudStorageDownloadDetails.bucketId Id of the bucket the file object is stored in.
cloudStorageDownloadDetails.objectId Id of the file object containing the report data.

References

Management API - Unsampled Reports Overview

See Also

Other Management API: get_custom_dimension, get_custom_metric, get_experiment, get_filter, get_goal, get_profile, get_unsampled_report, get_upload, get_webproperty, list_accounts, list_custom_data_sources, list_custom_dimensions, list_custom_metrics, list_experiments, list_filters, list_goals, list_profiles, list_segments, list_uploads, list_webproperties
list_uploads

Description
List uploads to which the user has access.

Usage
list_uploads(accountId, webPropertyId, customDataSourceId, start.index = NULL, max.results = NULL, token)

Arguments
accountId character. Account Id for the uploads to retrieve.
webPropertyId character. Web property Id for the uploads to retrieve.
customDataSourceId character. Custom data source Id for uploads to retrieve.
start.index integer. A 1-based index of the first upload to retrieve. Use this parameter as a pagination mechanism along with the max.results parameter.
max.results integer. The maximum number of uploads to include in this response.
token Token2.0 class object with a valid authorization data.

Value
The Uploads collection is a set of Upload resources, each of which describes an upload for one of the user’s custom data sources. This resource should be used when uploading Dimension Widening data.

id A unique ID for this upload.
kind Resource type for Analytics upload.
accountId Account Id to which this upload belongs.
customDataSourceId Custom data source Id to which this data import belongs.
status Upload status. Possible values: PENDING, COMPLETED, FAILED, DELETING, DELETED.
errors Data import errors collection.

References
Management API - Uploads Overview
See Also

Other Management API: get_custom_dimension, get_custom_metric, get_experiment, get_filter, get_goal, get_profile, get_unsampled_report, get_upload, get_webproperty, list_accounts, list_custom_data_sources, list_custom_dimensions, list_custom_metrics, list_experiments, list_filters, list_goals, list_profiles, list_segments, list_unsampled_reports, list_webproperties

Description

Lists properties to which the user has access.

Usage

list_webproperties(accountId = "-all", start.index = NULL, max.results = NULL, token)

Arguments

accountId character. Account ID to retrieve web properties for. Can either be a specific account ID or '-all', which refers to all the accounts that user has access to.

start.index integer. An index of the first entity to retrieve. Use this parameter as a pagination mechanism along with the max-results parameter.

max.results integer. The maximum number of web properties to include in this response.

Token2.0 class object with a valid authorization data.

Value

The Webproperties collection is a set of Webproperty resources, each of which describes a web property available to an authenticated user.

id Web property ID of the form UA-XXXXX-YY.

kind Resource type for Analytics WebProperty.

accountId Account ID to which this web property belongs.

internalWebpropertyId Internal ID for this web property.

name Name of this web property.

websiteUrl Website url for this web property.

level Level for this web property.

profileCount View (Profile) count for this web property.
industryVertical

The industry vertical/category selected for this web property. If this field is set, the correct values are: UNSPECIFIED ARTS_AND_ENTERTAINMENT AUTOMOTIVE BEAUTY_AND_FITNESS BOOKS_AND_LITERATURE BUSINESS_AND_INDUSTRIAL_MARKETS COMPUTERS_AND_ELECTRONICS FINANCE FOOD_AND_DRINK GAMES HEALTHCARE HOBBIES_AND_LEISURE HOME_AND_GARDEN INTERNET_AND_TELECOM JOBS_AND_EDUCATION LAW_AND_GOVERNMENT NEWS ONLINE_COMMUNITIES OTHER_PEOPLE_AND_SOCIETY PETS_AND_ANIMALS REAL_ESTATE REFERENCE SCIENCE SHOPPING SPORTS TRAVEL

defaultProfileId

Default view (profile) ID.

permissions

Permissions the user has for this web property.

created

Time this web property was created.

updated

Time this web property was last modified.

starred

Indicates whether this web property is starred or not.

permissions

All the permissions that the user has for this web property. These include any implied permissions (e.g., EDIT implies VIEW) or inherited permissions from the parent account.

References

Management API - Web Properties Overview

See Also

Other Management API: get_custom_dimension, get_custom_metric, get_experiment, get_filter, get_goal, get_profile, get_unsampled_report, get_upload, get_webproperty, list_accounts, list_custom_data_sources, list_custom_dimensions, list_custom_metrics, list_experiments, list_filters, list_goals, list_profiles, list_segments, list_unsampled_reports, list_uploads

shiny_dimsmets (The Shiny Dimensions & Metrics Explorer)

Description

The dimensions and metrics explorer lists and describes all the dimensions and metrics available through the Core Reporting API. This app deployed to the https://artemklevtsov.shinyapps.io/ga-dimsmets.

Usage

shiny_dimsmets()

See Also

list_dimsmets get_ga
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