
cdrouter.py Documentation

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QA Cafe

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Introduction

cdrouter is a simple Python wrapper for the CDRouter Web API. <https://support.qacafe.com/cdrouter-web-api/>
For more information on CDRouter, please visit <http://www.qacafe.com/>.

1.1 Download & Install

cdrouter is available on PyPI.

```
$ pip install -U cdrouter
```

1.2 Usage

```
import time
from cdrouter import CDRouter
from cdrouter.jobs import Job

c = CDRouter('http://localhost:8015', token='deadbeef')

for p in c.packages.list(filter=['tags@>{noretry}'], limit='none'):
    print('Launching package ' + p.name)

    j = c.jobs.launch(Job(package_id=p.id, extra_cli_args='-testvar myvar=example'))

    while j.result_id == None:
        time.sleep(1)
        j = c.jobs.get(j.id)

    print('    Result-ID: ' + j.result_id)

print('done.')
```


2.1 cdrouter

Python client for the CDRouter Web API.

2.2 cdrouter.CDRouter

class `cdrouter.CDRouter` (*base*, *token=None*, *insecure=False*)
Service for accessing the CDRouter Web API.

Parameters

- **base** – Base HTTP or HTTPS URL for CDRouter system as a string, optionally including a port. For example *http://localhost*, *http://cdrouter.lan:8015* or *https://127.0.0.1*.
- **token** – (optional) CDRouter API token as a string. Not required if Automatic Login is enabled. If omitted, value will be taken from `CDROUTER_API_TOKEN` environment variable.
- **insecure** – (optional) If bool *True* and *base* is an HTTPS URL, skip certificate verification and allow insecure connections to the CDRouter system.

annotations = None
annotations.AnnotationsService object

attachments = None
attachments.AttachmentsService object

captures = None
captures.CapturesService object

configs = None
configs.ConfigsService object

devices = None
devices.DevicesService object

exports = None
exports.ExportsService object

highlights = None
highlights.HighlightsService object

history = None
history.HistoryService object

imports = None
imports.ImportsService object

jobs = None
jobs.JobsService object

packages = None
packages.PackagesService object

results = None
results.ResultsService object

system = None
system.SystemService object

tags = None
tags.TagsService object

tests = None
testresults.TestResultsService object

testsuites = None
testsuites.TestsuitesService object

users = None
users.UsersService object

class `cdrouter.cdrouter.Share` (***kwargs*)
 Model for CDRouter Shares.

Parameters

- **user_id** – (optional) User ID as string.
- **read** – (optional) Bool *True* if reading is allowed.
- **write** – (optional) Bool *True* if writing is allowed.
- **execute** – (optional) Bool *True* if executing is allowed.

2.3 cdrouter.configs

class `cdrouter.configs.ConfigsService` (*service*)
 Service for accessing CDRouter Configs.

bulk_copy (*ids*)
 Bulk copy a set of configs.

Parameters *ids* – String list of config IDs.

Returns *configs.Config* list

bulk_delete (*ids=None, filter=None, type=None, all=False*)
 Bulk delete a set of configs.

Parameters

- **ids** – (optional) String list of config IDs.
- **filter** – (optional) String list of filters.

- **type** – (optional) *union* or *inter* as string.
- **all** – (optional) Apply to all if bool *True*.

bulk_edit (*_fields, ids=None, filter=None, type=None, all=False, testvars=None*)

Bulk edit a set of configs.

Parameters

- **_fields** – *configs.Config* object
- **ids** – (optional) String list of config IDs.
- **filter** – (optional) String list of filters.
- **type** – (optional) *union* or *inter* as string.
- **all** – (optional) Apply to all if bool *True*.
- **testvars** – (optional) *configs.ConfigTestvars* list

bulk_edit_testvars (*id, testvars*)

Bulk edit a config's testvars.

Parameters

- **id** – Config ID as string.
- **testvars** – *configs.Testvar* list

Returns *configs.Testvar* list

bulk_export (*ids*)

Bulk export a set of configs.

Parameters **ids** – String list of config IDs.

Return type tuple (*io.BytesIO, 'filename'*)

check_config (*contents*)

Process config contents with `cdrouter-cli -check-config`.

Parameters **contents** – Config contents as string.

Returns *configs.CheckConfig* object

Return type *configs.CheckConfig*

create (*resource*)

Create a new config.

Parameters **resource** – *configs.Config* object

Returns *configs.Config* object

Return type *configs.Config*

delete (*id*)

Delete a config.

Parameters **id** – Config ID as string.

delete_testvar (*id, name, group=None*)

Delete a testvar in a config. Deleting a testvar unsets any explicitly configured value for it in the config.

Parameters

- **id** – Config ID as string.

- **name** – Testvar name as string.
- **group** – (optional) Testvar group as string.

edit (*resource*)

Edit a config.

Parameters **resource** – *configs.Config* object

Returns *configs.Config* object

Return type *configs.Config*

edit_shares (*id, user_ids*)

Edit shares for a config.

Parameters

- **id** – Config ID as string.
- **user_ids** – User IDs as int list.

Returns *cdrouter.Share* list

edit_testvar (*id, resource*)

Edit a testvar in a config.

Parameters

- **id** – Config ID as string.
- **resource** – *configs.Testvar* object.

Returns *configs.Testvar* object

Return type *configs.Testvar*

export (*id*)

Export a config.

Parameters **id** – Config ID as string.

Return type tuple (*io.BytesIO, 'filename'*)

get (*id*)

Get a config.

Parameters **id** – Config ID as string.

Returns *configs.Config* object

Return type *configs.Config*

get_networks (*contents*)

Process config contents with *cdrouter-cli -print-networks-json*.

Parameters **contents** – Config contents as string.

Returns *configs.Networks* object

Return type *configs.Networks*

get_new ()

Get output of *cdrouter-cli -new-config*.

Return type string

get_plaintext (*id*)

Get a config as plaintext.

Parameters `id` – Config ID as string.

Return type string

get_shares (*id*)

Get shares for a config.

Parameters `id` – Config ID as string.

Returns `cdrouter.Share` list

get_testvar (*id, name, group=None*)

Get a testvar from a config.

Parameters

- `id` – Config ID as string.
- `name` – Testvar name as string.
- `group` – (optional) Testvar group as string.

Returns `configs.Testvar` object

Return type `configs.Testvar`

list (*filter=None, type=None, sort=None, limit=None, page=None*)

Get a list of configs.

Parameters

- `filter` – (optional) Filters to apply as a string list.
- `type` – (optional) `union` or `inter` as string.
- `sort` – (optional) Sort fields to apply as string list.
- `limit` – (optional) Limit returned list length.
- `page` – (optional) Page to return.

Returns `configs.Config` list

list_testvars (*id*)

Get a list of a config's testvars.

Parameters `id` – Config ID as string.

Returns `configs.Testvar` list

upgrade_config (*contents*)

Process config contents with `cdrouter-cli -upgrade-config`.

Parameters `contents` – Config contents as string.

Returns `configs.UpgradeConfig` object

Return type `configs.UpgradeConfig`

class `cdrouter.configs.Config` (**kwargs)

Model for CDRouter Configs.

Parameters

- `id` – (optional) Config ID as string.
- `name` – (optional) Config name as string.
- `description` – (optional) Config description as string.

- **created** – (optional) Creation time as *DateTime*.
- **updated** – (optional) Last-updated time as *DateTime*.
- **contents** – (optional) Config contents as string.
- **user_id** – (optional) User ID as string.
- **result_id** – (optional) Result ID as string (if a config snapshot).
- **tags** – (optional) Tags as string list.
- **note** – (optional) Note as string.

class `cdrouter.configs.ConfigError` (**kwargs)
Model for CDRouter Check Config Error.

Parameters

- **lines** – (optional) Line numbers as string list.
- **error** – (optional) Error message as string.

class `cdrouter.configs.CheckConfig` (**kwargs)
Model for CDRouter Check Config.

Parameters **errors** – (optional) `configs.ConfigError` list

class `cdrouter.configs.UpgradeConfig` (**kwargs)
Model for CDRouter Config Upgrades.

Parameters

- **success** – (optional) Bool *True* if successful.
- **output** – (optional) Output as string.

class `cdrouter.configs.Networks` (**kwargs)
Model for CDRouter Config Networks.

Parameters

- **name** – (optional) Network name as string.
- **type** – (optional) Network type as string.
- **side** – (optional) Network side as string.
- **title** – (optional) Network title as string.
- **children** – (optional) `configs.Networks` list.

class `cdrouter.configs.Testvar` (**kwargs)
Model for CDRouter Config Testvars.

Parameters

- **group** – (optional) Testvar group name as string.
- **name** – (optional) Testvar name as string.
- **value** – (optional) Testvar value as string.
- **default** – (optional) Testvar default value as string.
- **isdefault** – (optional) Bool *True* if testvar is set to default value.
- **line** – (optional) Config file line number as int.

2.4 cdrouter.devices

class `cdrouter.devices.DevicesService` (*service*)
Service for accessing CDRouter Devices.

bulk_copy (*ids*)

Bulk copy a set of devices.

Parameters *ids* – String list of device IDs.

Returns *devices.Device* list

bulk_delete (*ids=None, filter=None, type=None, all=False*)

Bulk delete a set of devices.

Parameters

- **ids** – (optional) String list of device IDs.
- **filter** – (optional) String list of filters.
- **type** – (optional) *union* or *inter* as string.
- **all** – (optional) Apply to all if bool *True*.

bulk_edit (*_fields, ids=None, filter=None, type=None, all=False*)

Bulk edit a set of devices.

Parameters

- **_fields** – *devices.Device* object
- **ids** – (optional) String list of device IDs.
- **filter** – (optional) String list of filters.
- **type** – (optional) *union* or *inter* as string.
- **all** – (optional) Apply to all if bool *True*.

bulk_export (*ids*)

Bulk export a set of devices.

Parameters *ids* – String list of device IDs.

Return type tuple (*io.BytesIO, 'filename'*)

create (*resource*)

Create a new device.

Parameters **resource** – *devices.Device* object

Returns *devices.Device* object

Return type *devices.Device*

delete (*id*)

Delete a device.

Parameters **id** – Device ID as string.

edit (*resource*)

Edit a device.

Parameters **resource** – *devices.Device* object

Returns *devices.Device* object

Return type *devices.Device*

edit_shares (*id*, *user_ids*)

Edit shares for a device.

Parameters

- **id** – Device ID as string.
- **user_ids** – User IDs as int list.

Returns *cdrouter.Share* list

export (*id*)

Export a device.

Parameters **id** – Device ID as string.

Return type tuple (*io.BytesIO*, 'filename')

get (*id*)

Get a device.

Parameters **id** – Device ID as string.

Returns *devices.Device* object

Return type *devices.Device*

get_shares (*id*)

Get shares for a device.

Parameters **id** – Device ID as string.

Returns *cdrouter.Share* list

list (*filter=None*, *type=None*, *sort=None*, *limit=None*, *page=None*)

Get a list of devices.

Parameters

- **filter** – (optional) Filters to apply as a string list.
- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.
- **limit** – (optional) Limit returned list length.
- **page** – (optional) Page to return.

Returns *devices.Device* list

class *cdrouter.devices.Device* (***kwargs*)

Model for CDRouter Devices.

Parameters

- **id** – (optional) Device ID as a string.
- **name** – (optional) Name as string.
- **created** – (optional) Creation time as *DateTime*.
- **updated** – (optional) Last-updated time as *DateTime*.
- **user_id** – (optional) User ID as string.
- **result_id** – (optional) Result ID as string (if a device snapshot).

- **attachments_dir** – (optional) Filepath for attachments as string.
- **picture_id** – (optional) Attachment ID for used for device picture as string.
- **tags** – (optional) Tags as string list.
- **default_ip** – Default IP as a string (optional)
- **default_login** – Default login as a string (optional)
- **default_password** – Default password as a string (optional)
- **location** – Location as a string (optional)
- **device_category** – Device category as a string (optional)
- **manufacturer** – Manufacturer as a string (optional)
- **manufacturer_oui** – Manufacturer OUI as a string (optional)
- **model_name** – Model name as a string (optional)
- **model_number** – Model number as a string (optional)
- **description** – Description as a string (optional)
- **product_class** – Product class as a string (optional)
- **serial_number** – Serial number as a string (optional)
- **hardware_version** – Hardware version as a string (optional)
- **software_version** – Software version as a string (optional)
- **provisioning_code** – Provisioning code as a string (optional)
- **note** – Note as a string (optional)

2.5 cdrouter.attachments

class `cdrouter.attachments.AttachmentsService` (*service*)

create (*id*, *fd*, *filename*=*'attachment-name'*)

Add an attachment to a device.

Parameters

- **id** – Device ID as string.
- **fd** – File-like object to upload.
- **filename** – (optional) Name to use for new attachment as a string.

Returns `attachments.Attachment` object

Return type `attachments.Attachment`

delete (*id*, *attid*)

Delete a device's attachment.

Parameters

- **id** – Device ID as string.
- **attid** – Attachment ID as string.

download (*id*, *attid*)

Download a device's attachment.

Parameters

- **id** – Device ID as string.
- **attid** – Attachment ID as string.

Return type tuple (*io.BytesIO*, 'filename')

edit (*resource*)

Edit a device's attachment.

Parameters **resource** – *attachments.Attachment* object

Returns *attachments.Attachment* object

Return type *attachments.Attachment*

get (*id*, *attid*)

Get a device's attachment.

Parameters

- **id** – Device ID as string.
- **attid** – Attachment ID as string.

Returns *attachments.Attachment* object

Return type *attachments.Attachment*

list (*id*, *filter=None*, *type=None*, *sort=None*, *limit=None*, *page=None*)

Get a list of a device's attachments.

Parameters

- **id** – Device ID as string.
- **filter** – (optional) Filters to apply as a string list.
- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.
- **limit** – (optional) Limit returned list length.
- **page** – (optional) Page to return.

Returns *attachments.Attachment* list

thumbnail (*id*, *attid*, *size=None*)

Download thumbnail of a device's attachment. Attachment must be a GIF, JPEG or PNG image.

Parameters

- **id** – Device ID as string.
- **attid** – Attachment ID as string.
- **size** – (optional) Height in pixels of generated thumbnail.

Return type tuple (*io.BytesIO*, 'filename')

class `cdrouter.attachments.Attachment` (**kwargs)

Model for CDRouter Attachments.

Parameters

- **id** – (optional) Attachment ID as a string.
- **name** – (optional) Name as string.
- **description** – (optional) Description as string.
- **created** – (optional) Creation time as *DateTime*.
- **updated** – (optional) Last-updated time as *DateTime*.
- **size** – (optional) Attachment size as an int.
- **path** – (optional) Filepath to attachment as string.
- **device_id** – (optional) Device ID as string.

2.6 cdrouter.jobs

class `cdrouter.jobs.JobsService` (*service*)

Service for accessing CDRouter Jobs.

bulk_delete (*ids=None, filter=None, type=None, all=False*)

Bulk delete a set of jobs.

Parameters

- **ids** – (optional) String list of job IDs.
- **filter** – (optional) String list of filters.
- **type** – (optional) *union* or *inter* as string.
- **all** – (optional) Apply to all if bool *True*.

bulk_launch (*jobs=None, filter=None, all=False*)

Bulk launch a set of jobs.

Parameters

- **jobs** – *jobs.Job* list
- **filter** – (optional) Filters to apply as a string list.
- **all** – (optional) Apply to all if bool *True*.

delete (*id*)

Delete a job.

Parameters **id** – Job ID as string.

edit (*resource*)

Edit a job.

Parameters **resource** – *jobs.Job* object

Returns *jobs.Job* object

Return type *jobs.Job*

get (*id*)

Get a job.

Parameters **id** – Job ID as string.

Returns *jobs.Job* object

Return type *jobs.Job*

launch (*resource*)

Launch a new job.

Parameters **resource** – *jobs.Job* object

Returns *jobs.Job* object

Return type *jobs.Job*

list (*filter=None, type=None, sort=None, limit=None, page=None*)

Get a list of jobs.

Parameters

- **filter** – (optional) Filters to apply as a string list.
- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.
- **limit** – (optional) Limit returned list length.
- **page** – (optional) Page to return.

Returns *jobs.Job* list

class `cdrouter.jobs.Job` (***kwargs*)

Model for CDRouter Jobs.

Parameters

- **id** – (optional) Job ID as string.
- **status** – (optional) Bool *True* if user is an administrator.
- **options** – (optional) *jobs.Options* object
- **package_id** – (optional) Package ID as string.
- **package_name** – (optional) Package name as string.
- **device_id** – (optional) Device ID as string.
- **device_name** – (optional) Device name as string.
- **result_id** – (optional) Result ID as string.
- **user_id** – (optional) User ID as string.
- **created** – (optional) Job creation time as *DateTime*.
- **updated** – (optional) Job last-updated time as *DateTime*.

class `cdrouter.jobs.Options` (***kwargs*)

Model for CDRouter Job Options.

Parameters

- **tags** – (optional) Tags as string list.
- **skip_tests** – (optional) Tests to skip as string list.
- **begin_at** – (optional) Test name to begin testing at as string.
- **end_at** – (optional) Test name to end testing at as string.
- **extra_cli_args** – (optional) Extra *cdrouter-cli* arguments as string.

2.7 cdrouter.packages

class `cdrouter.packages.PackagesService` (*service*)
Service for accessing CDRouter Packages.

analyze (*id*)

Get a list of tests that will be skipped for a package.

Parameters *id* – Package ID as string.

Returns `packages.Analysis` object

Return type `packages.Analysis`

bulk_copy (*ids*)

Bulk copy a set of packages.

Parameters *ids* – String list of package IDs.

Returns `packages.Package` list

bulk_delete (*ids=None, filter=None, type=None, all=False*)

Bulk delete a set of packages.

Parameters

- *ids* – (optional) String list of package IDs.
- *filter* – (optional) String list of filters.
- *type* – (optional) *union* or *inter* as string.
- *all* – (optional) Apply to all if bool *True*.

bulk_edit (*_fields, ids=None, filter=None, type=None, all=False*)

Bulk edit a set of packages.

Parameters

- *_fields* – `packages.Package` object
- *ids* – (optional) String list of package IDs.
- *filter* – (optional) String list of filters.
- *type* – (optional) *union* or *inter* as string.
- *all* – (optional) Apply to all if bool *True*.

bulk_export (*ids*)

Bulk export a set of packages.

Parameters *ids* – String list of package IDs.

Return type tuple (*io.BytesIO, 'filename'*)

create (*resource*)

Create a new package.

Parameters *resource* – `packages.Package` object

Returns `packages.Package` object

Return type `packages.Package`

delete (*id*)

Delete a package.

Parameters `id` – Package ID as string.

edit (*resource*)

Edit a package.

Parameters `resource` – `packages.Package` object

Returns `packages.Package` object

Return type `packages.Package`

edit_shares (*id, user_ids*)

Edit shares for a package.

Parameters

- `id` – Package ID as string.
- `user_ids` – User IDs as int list.

Returns `cdrouter.Share` list

export (*id*)

Export a package.

Parameters `id` – Package ID as string.

Return type tuple (`io.BytesIO`, 'filename')

get (*id*)

Get a package.

Parameters `id` – Package ID as string.

Returns `packages.Package` object

Return type `packages.Package`

get_shares (*id*)

Get shares for a package.

Parameters `id` – Package ID as string.

Returns `cdrouter.Share` list

list (*filter=None, type=None, sort=None, limit=None, page=None*)

Get a list of packages.

Parameters

- `filter` – (optional) Filters to apply as a string list.
- `type` – (optional) `union` or `inter` as string.
- `sort` – (optional) Sort fields to apply as string list.
- `limit` – (optional) Limit returned list length.
- `page` – (optional) Page to return.

Returns `packages.Package` list

class `cdrouter.packages.Package` (**kwargs)

Model for CDRouter Packages.

Parameters

- `id` – (optional) Package ID as a string.

- **name** – (optional) Name as a string.
- **description** – (optional) Description as a string.
- **created** – (optional) Creation time as *DateTime*.
- **updated** – (optional) Last-updated time as *DateTime*.
- **test_count** – (optional) Test count as a string.
- **testlist** – (optional) Testlist as a string list.
- **extra_cli_args** – (optional) Extra CLI args as a string.
- **user_id** – (optional) User ID as a string.
- **agent_id** – (optional) Agent ID as a string.
- **config_id** – (optional) Config ID as a string.
- **result_id** – (optional) Result ID as a string (if a package snapshot).
- **device_id** – (optional) Device ID as a string.
- **options** – (optional) *packages.Options* object
- **tags** – (optional) Tags as a string list.
- **use_as_testlist** – (optional) Bool *True* if package is used as a testlist.
- **note** – (optional) Note as a string.

class `cdrouter.packages.Options` (**kwargs)
Model for CDRouter Package Options.

Parameters

- **forever** – (optional) Bool *True* if package looped forever.
- **loop** – (optional) Loop count as a string.
- **repeat** – (optional) Repeat count as a string.
- **maxfail** – (optional) Max fail count as a string.
- **duration** – (optional) Max testing time duration as a string.
- **wait** – (optional) Wait between tests duration as a string.
- **pause** – (optional) Bool *True* is pausing between tests.
- **shuffle** – (optional) Bool *True* if testlist is shuffled.
- **seed** – (optional) Shuffle seed as a string.
- **retry** – (optional) Retry count as a string.
- **rdelay** – (optional) Retry delay as a string.

class `cdrouter.packages.Analysis` (**kwargs)
Model for CDRouter Package Analysis.

Parameters

- **total_count** – (optional) Total count as an int.
- **run_count** – (optional) Run count as an int.
- **skipped_count** – (optional) Skipped test count as an int.
- **skipped_tests** – (optional) Skipped tests as a string list.

2.8 cdrouter.results

class `cdrouter.results.ResultsService` (*service*)

Service for accessing CDRouter Results.

all_stats ()

Compute stats for all results.

Returns `results.AllStats` object

Return type `results.AllStats`

bulk_copy (*ids*)

Bulk copy a set of results.

Parameters *ids* – String list of result IDs.

Returns `results.Result` list

bulk_delete (*ids=None, filter=None, type=None, all=False*)

Bulk delete a set of results.

Parameters

- **ids** – (optional) String list of result IDs.
- **filter** – (optional) String list of filters.
- **type** – (optional) *union* or *inter* as string.
- **all** – (optional) Apply to all if bool *True*.

bulk_edit (*_fields, ids=None, filter=None, type=None, all=False*)

Bulk edit a set of results.

Parameters

- **_fields** – `results.Result` object
- **ids** – (optional) String list of result IDs.
- **filter** – (optional) String list of filters.
- **type** – (optional) *union* or *inter* as string.
- **all** – (optional) Apply to all if bool *True*.

bulk_export (*ids, exclude_captures=False*)

Bulk export a set of results.

Parameters *ids* – String list of result IDs.

Return type tuple (*io.BytesIO, 'filename'*)

delete (*id*)

Delete a result.

Parameters *id* – Result ID as string.

download_logdir_archive (*id, format='zip', exclude_captures=False*)

Download logdir archive in tgz or zip format.

Parameters

- **id** – Result ID as string.
- **format** – (optional) Format to download, must be string *zip* or *tgz*.

- **exclude_captures** – If bool *True*, don't include capture files

Return type tuple (*io.BytesIO*, 'filename')

edit (*resource*)

Edit a result.

Parameters **resource** – *results.Result* object

Returns *results.Result* object

Return type *results.Result*

edit_shares (*id*, *user_ids*)

Edit shares for a result.

Parameters

- **id** – Result ID as string.
- **user_ids** – User IDs as int list.

Returns *cdrouter.Share* list

export (*id*, *exclude_captures=False*)

Export a result.

Parameters

- **id** – Result ID as string.
- **exclude_captures** – If bool *True*, don't export capture files

Return type tuple (*io.BytesIO*, 'filename')

get (*id*)

Get a result.

Parameters **id** – Result ID as string.

Returns *results.Result* object

Return type *results.Result*

get_logdir_file (*id*, *filename*)

Download a logdir file.

Parameters

- **id** – Result ID as string.
- **filename** – Logdir filename as string.

Return type tuple (*io.BytesIO*, 'filename')

get_shares (*id*)

Get shares for a result.

Parameters **id** – Result ID as string.

Returns *cdrouter.Share* list

get_test_metric (*id*, *name*, *metric*)

Get a test metric.

Parameters

- **id** – Result ID as string.

- **name** – Test name as string.
- **metric** – Metric name as string.

Returns *results.Metric* object

Return type *results.Metric*

get_test_metric_csv (*id, name, metric*)
Get a test metric as CSV.

Parameters

- **id** – Result ID as string.
- **name** – Test name as string.
- **id** – Metric name as string.

Return type string

list (*filter=None, type=None, sort=None, limit=None, page=None*)
Get a list of results.

Parameters

- **filter** – (optional) Filters to apply as a string list.
- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.
- **limit** – (optional) Limit returned list length.
- **page** – (optional) Page to return.

Returns *results.Result* list

list_csv (*filter=None, type=None, sort=None, limit=None, page=None*)
Get a list of results as CSV.

Parameters

- **filter** – (optional) Filters to apply as a string list.
- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.
- **limit** – (optional) Limit returned list length.
- **page** – (optional) Page to return.

Return type string

list_logdir (*id, filter=None, sort=None*)
Get a list of logdir files.

Parameters

- **id** – Result ID as string.
- **filter** – Filter to apply as string.
- **sort** – Sort field to apply as string.

Returns *results.LogDirFile* list

pause (*id, when=None*)
Pause a running result.

Parameters

- **id** – Result ID as string.
- **when** – Must be string *end-of-test* or *end-of-loop*.

pause_end_of_loop (*id*)

Pause a running result at the end of the current loop.

Parameters **id** – Result ID as string.

pause_end_of_test (*id*)

Pause a running result at the end of the current test.

Parameters **id** – Result ID as string.

set_stats (*ids*)

Compute stats for a set of results.

Parameters **id** – Result IDs as string list.

Returns *results.SetStats* object

Return type *results.SetStats*

single_stats (*id*)

Compute stats for a result.

Parameters **id** – Result ID as string.

Returns *results.SingleStats* object

Return type *results.SingleStats*

stop (*id*, *when=None*)

Stop a running result.

Parameters

- **id** – Result ID as string.
- **when** – Must be string *end-of-test* or *end-of-loop*.

stop_end_of_loop (*id*)

Stop a running result at the end of the current loop.

Parameters **id** – Result ID as string.

stop_end_of_test (*id*)

Stop a running result at the end of the current test.

Parameters **id** – Result ID as string.

unpause (*id*)

Unpause a running result.

Parameters **id** – Result ID as string.

class `cdrouter.results.Result` (***kwargs*)

Model for CDRouter Results.

Parameters

- **id** – (optional) Result ID as a string.
- **created** – (optional) Creation time as *DateTime*.
- **updated** – (optional) Last-updated time as *DateTime*.

- **result** – (optional) Result as a string.
- **status** – (optional) Status as a string.
- **loops** – (optional) Loop count as an int.
- **tests** – (optional) Test count as an int.
- **passed** – (optional) Passed count as an int.
- **fail** – (optional) Failed count as an int.
- **duration** – (optional) Duration in seconds as an int.
- **size_on_disk** – (optional) Size on disk in bytes as an int.
- **starred** – (optional) Bool *True* if result is starred.
- **archived** – (optional) Bool *True* if result is archived.
- **result_dir** – (optional) Filepath to result directory as a string.
- **agent_name** – (optional) Agent name as a string.
- **package_name** – (optional) Package name as a string.
- **device_name** – (optional) Device name as a string.
- **config_name** – (optional) Config name as a string.
- **package_id** – (optional) Package ID as a string.
- **device_id** – (optional) Device ID as a string.
- **config_id** – (optional) Config ID as a string.
- **user_id** – (optional) User ID as a string.
- **note** – (optional) Note as a string.
- **pause_message** – (optional) Pause message as a string (if currently paused).
- **build_info** – (optional) Build info as a string.
- **tags** – (optional) Tags as a string list.
- **testcases** – (optional) Testcases as a string list.
- **options** – (optional) *results.Options* object

class `cdrouter.results.TestCount` (**kwargs)
Model for CDRouter Test Counts.

Parameters

- **name** – (optional) Name as a string.
- **count** – (optional) Count as a string.

class `cdrouter.results.TestDuration` (**kwargs)
Model for CDRouter Test Durations.

Parameters

- **name** – (optional) Name as a string.
- **duration** – (optional) Duration as a string.

class `cdrouter.results.ResultBreakdown` (**kwargs)
Model for CDRouter Result Breakdowns.

Parameters

- **passed** – (optional) Pass count as a string.
- **failed** – (optional) Fail count as a string.
- **skipped** – (optional) Skipped count as a string.

class `cdrouter.results.TimeBreakdown` (***kwargs*)
Model for CDRouter Time Breakdowns.

Parameters

- **passed** – (optional) Pass duration as a string.
- **failed** – (optional) Fail duration as a string.

class `cdrouter.results.SetStats` (***kwargs*)
Model for CDRouter Result Set Stats.

Parameters

- **frequent_failures** – (optional) *results.TestCount* list
- **longest_tests** – (optional) *results.TestDuration* list
- **result_breakdown** – (optional) *results.ResultBreakdown* object
- **time_breakdown** – (optional) *results.TimeBreakdown* object

class `cdrouter.results.TestResultBreakdown` (***kwargs*)
Model for CDRouter TestResult Breakdowns.

Parameters

- **failed_at_least_once** – (optional) *results.TestCount* list
- **passed_every_time** – (optional) *results.TestCount* list

class `cdrouter.results.Progress` (***kwargs*)
Model for CDRouter Result Progress.

Parameters

- **finished** – (optional) Finished count as an int.
- **total** – (optional) Total count as an int.
- **progress** – (optional) Progress as an int.
- **unit** – (optional) Unit as a string.

class `cdrouter.results.SingleStats` (***kwargs*)
Model for CDRouter Single Results Stats.

Parameters

- **result_breakdown** – (optional) *results.ResultBreakdown* object
- **progress** – (optional) *results.Progress* object

class `cdrouter.results.PackageCount` (***kwargs*)
Model for CDRouter Package Counts.

Parameters

- **package_name** – (optional) Package name as a string.
- **count** – (optional) Count as a string.

class `cdrouter.results.DeviceCount` (**kwargs)
Model for CDRouter Device Counts.

Parameters

- **device_name** – (optional) Device name as a string.
- **count** – (optional) Count as a string.

class `cdrouter.results.AllStats` (**kwargs)
Model for CDRouter All Results Stats.

Parameters

- **frequent_packages** – (optional) *results.PackageCount* list
- **package_names** – (optional) *results.PackageCount* list
- **frequent_devices** – (optional) *results.DeviceCount* list
- **device_names** – (optional) *results.DeviceCount* list

class `cdrouter.results.Metric` (**kwargs)
Model for CDRouter Metrics.

Parameters

- **log_file** – (optional) Filepath to logfile as a string.
- **timestamp** – (optional) Timestamp for metric as a *DateTime*.
- **metric** – (optional) Metric name as a string.
- **value** – (optional) Metric value as a string.
- **units** – (optional) Metric units as a string.
- **result** – (optional) Metric result as a string.
- **interface_1** – (optional) First interface as a string.
- **interface_2** – (optional) Second interface as a string.
- **streams** – (optional) Stream count as a string.

class `cdrouter.results.LogDirFile` (**kwargs)
Model for CDRouter Logdir Files.

Parameters

- **name** – (optional) Name as a string.
- **size** – (optional) Filesize as an int.
- **modified** – (optional) Last-updated time as a *DateTime*.

class `cdrouter.results.Options` (**kwargs)
Model for CDRouter Result Options.

Parameters

- **tags** – (optional) Tags as string list.
- **skip_tests** – (optional) Tests to skip as string list.
- **begin_at** – (optional) Test name to begin testing at as string.
- **end_at** – (optional) Test name to end testing at as string.
- **extra_cli_args** – (optional) Extra *cdrouter-cli* arguments as string.

class `cdrouter.results.Result` (***kwargs*)
Model for CDRouter Results.

Parameters

- **id** – (optional) Result ID as a string.
- **created** – (optional) Creation time as *DateTime*.
- **updated** – (optional) Last-updated time as *DateTime*.
- **result** – (optional) Result as a string.
- **status** – (optional) Status as a string.
- **loops** – (optional) Loop count as an int.
- **tests** – (optional) Test count as an int.
- **passed** – (optional) Passed count as an int.
- **fail** – (optional) Failed count as an int.
- **duration** – (optional) Duration in seconds as an int.
- **size_on_disk** – (optional) Size on disk in bytes as an int.
- **starred** – (optional) Bool *True* if result is starred.
- **archived** – (optional) Bool *True* if result is archived.
- **result_dir** – (optional) Filepath to result directory as a string.
- **agent_name** – (optional) Agent name as a string.
- **package_name** – (optional) Package name as a string.
- **device_name** – (optional) Device name as a string.
- **config_name** – (optional) Config name as a string.
- **package_id** – (optional) Package ID as a string.
- **device_id** – (optional) Device ID as a string.
- **config_id** – (optional) Config ID as a string.
- **user_id** – (optional) User ID as a string.
- **note** – (optional) Note as a string.
- **pause_message** – (optional) Pause message as a string (if currently paused).
- **build_info** – (optional) Build info as a string.
- **tags** – (optional) Tags as a string list.
- **testcases** – (optional) Testcases as a string list.
- **options** – (optional) *results.Options* object

2.9 cdrouter.testresults

class `cdrouter.testresults.TestResultsService` (*service*)
Service for accessing CDRouter TestResults.

edit (*id, resource*)

Edit a test result.

Parameters

- **id** – Result ID as string.
- **resource** – *testresults.TestResult* object

Returns *testresults.TestResult* object

Return type *testresults.TestResult*

get (*id, seq*)

Get a test result.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.

Returns *testresults.TestResult* object

Return type *testresults.TestResult*

get_log (*id, seq, offset=None, limit=None, filter=None, packets=None, timestamp_format=None*)

Get a test result's log.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **offset** – (optional) Offset within logfile to get.
- **limit** – (optional) Limit returned list length.
- **filter** – (optional) Filters to apply as a string list.
- **packets** – (optional) Set to bool *False* to omit packet logs.
- **timestamp_format** – (optional) Timestamp format to use, must be string *long* or *short*.

Returns *testresults.Log* object

Return type *testresults.Log*

get_log_plaintext (*id, seq*)

Get a test result's log as plaintext.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.

Return type string

list (*id, filter=None, type=None, sort=None, limit=None, page=None*)

Get a list of test results.

Parameters

- **id** – Result ID as string.
- **filter** – (optional) Filters to apply as a string list.

- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.
- **limit** – (optional) Limit returned list length.
- **page** – (optional) Page to return.

Returns *testresults.TestResult* list

list_csv (*id*, *filter=None*, *type=None*, *sort=None*, *limit=None*, *page=None*)
Get a list of test results as CSV.

Parameters

- **id** – Result ID as string.
- **filter** – (optional) Filters to apply as a string list.
- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.
- **limit** – (optional) Limit returned list length.
- **page** – (optional) Page to return.

Return type string

class `cdrouter.testresults.TestResult` (**kwargs)
Model for CDRouter TestResults.

Parameters

- **id** – (optional) Result ID as string.
- **seq** – (optional) TestResult sequence ID as string.
- **loop** – (optional) Loop number as string.
- **result** – (optional) Test result as string.
- **retries** – (optional) Retry count as int.
- **started** – (optional) Test start time as *DateTime*.
- **duration** – (optional) Test duration as int.
- **flagged** – (optional) *True* if test is flagged.
- **name** – (optional) Test name as string.
- **description** – (optional) Test description as string.
- **skip_name** – (optional) Skip name for TestResult as string.
- **skip_reason** – (optional) Skip reason for TestResult as string.
- **log** – (optional) Logfile path for TestResult as string.
- **note** – (optional) Note for TestResult as string.

class `cdrouter.testresults.Summary` (**kwargs)
Model for CDRouter Log Section Summaries.

Parameters

- **errors** – (optional) Error log count as int.
- **fails** – (optional) Fail log count as int.

- **passes** – (optional) Pass log count as int.
- **warning** – (optional) Warning log count as int.

class `cdrouter.testresults.Line` (***kwargs*)
Model for CDRouter Log Lines.

Parameters

- **raw** – (optional) Raw log text as string.
- **line** – (optional) Line number as int.
- **header** – (optional) *True* if line is a header.
- **section** – (optional) *True* if line is a section.
- **prefix** – (optional) Log prefix as string.
- **name** – (optional) Log stack name as string.
- **timestamp** – (optional) Log timestamp as string.
- **message** – (optional) Log message as string.
- **interface** – (optional) Log interface as string (if packet log).
- **packet** – (optional) Log frame number as string (if packet log).
- **src** – (optional) Log source address as string (if packet log).
- **dst** – (optional) Log destination address as string (if packet log).
- **proto** – (optional) Log protocol name as string (if packet log).
- **info** – (optional) Log protocol summary as string (if packet log).
- **summary** – (optional) `testresults.Summary` object (if section log)

class `cdrouter.testresults.Log` (***kwargs*)
Model for CDRouter Log.

Parameters

- **offset** – (optional) Zero-based offset in logfile as int.
- **limit** – (optional) Limit as int.
- **lines** – (optional) `testresults.Line` list
- **total** – (optional) Total line count as int.

2.10 cdrouter.annotations

class `cdrouter.annotations.AnnotationsService` (*service*)
Service for accessing CDRouter Annotations.

create (*id, seq, resource*)
Create an annotation.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **resource** – `annotations.Annotation` object

Returns *annotations.Annotation* object

Return type *annotations.Annotation*

create_or_edit (*id, seq, resource*)

Create or edit an annotation.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **resource** – *annotations.Annotation* object

Returns *annotations.Annotation* object

Return type *annotations.Annotation*

delete (*id, seq, line*)

Delete an annotation.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **line** – Line number in TestResult's logfile as string.

edit (*id, seq, resource*)

Edit an annotation.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **resource** – *annotations.Annotation* object

Returns *annotations.Annotation* object

Return type *annotations.Annotation*

get (*id, seq, line*)

Get an annotation.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **line** – Line number in TestResult's logfile as string.

Returns *annotations.Annotation* object

Return type *annotations.Annotation*

list (*id, seq*)

Get a list of annotations.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.

Returns *annotations.Annotation* list

class `cdrouter.annotations.Annotation` (***kwargs*)
Model for CDRouter Annotations.

Parameters

- **id** – (optional) Result ID as string.
- **seq** – (optional) TestResult sequence ID as string.
- **line** – (optional) Line number in TestResult’s logfile as string.
- **comment** – (optional) Comment text as string.

2.11 cdrouter.captures

class `cdrouter.captures.CapturesService` (*service*)
Service for accessing CDRouter Captures.

ascii (*id, seq, intf, filter=None, frame=None, inline=False*)
Get a capture’s ASCII (hex dump).

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **intf** – Interface name as string.
- **filter** – (optional) PCAP filter to apply as string.
- **frame** – (optional) Frame number to decode.
- **inline** – (optional) Use inline version of capture file.

Returns `captures.ASCII` object

Return type `captures.ASCII`

decode (*id, seq, intf, filter=None, frame=None, inline=False*)
Get a capture’s decode.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **intf** – Interface name as string.
- **filter** – (optional) PCAP filter to apply as string.
- **frame** – (optional) Frame number to decode.
- **inline** – (optional) Use inline version of capture file.

Returns `captures.Decode` object

Return type `captures.Decode`

download (*id, seq, intf, inline=False*)
Download a capture as a PCAP file.

Parameters

- **id** – Result ID as string.

- **seq** – TestResult sequence ID as string.
- **intf** – Interface name as string.
- **inline** – (optional) Use inline version of capture file.

Return type tuple (*io.BytesIO*, *'filename'*)

get (*id, seq, intf*)

Get a capture.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **intf** – Interface name as string.

Returns *captures.Capture* object

Return type *captures.Capture*

list (*id, seq*)

Get a list of captures.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.

Returns *captures.Capture* list

send_to_cloudshark (*id, seq, intf, inline=False*)

Send a capture to a CloudShark Appliance. Both *cloudshark_appliance_url* and *cloudshark_appliance_token* must be properly configured via system preferences.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **intf** – Interface name as string.
- **inline** – (optional) Use inline version of capture file.

Returns *captures.CloudShark* object

Return type *captures.CloudShark*

summary (*id, seq, intf, filter=None, inline=False*)

Get a capture's summary.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **intf** – Interface name as string.
- **filter** – (optional) PCAP filter to apply as string.
- **inline** – (optional) Use inline version of capture file.

Returns *captures.Summary* object

Return type *captures.Summary*

class `cdrouter.captures.Capture` (**kwargs)
Model for CDRouter Captures.

Parameters

- **id** – (optional) Result ID as string.
- **seq** – (optional) TestResult sequence ID as string.
- **interface** – (optional) Interface name as string.
- **filename** – (optional) Path to capture file as string.

class `cdrouter.captures.Section` (**kwargs)
Model for CDRouter Capture Sections.

Parameters **value** – (optional) Section value as a string.

class `cdrouter.captures.Structure` (**kwargs)
Model for CDRouter Capture Structures.

Parameters **sections** – (optional) `captures.Section` list

class `cdrouter.captures.SummaryPacket` (**kwargs)
Model for CDRouter Capture Summary Packets.

Parameters **sections** – (optional) `captures.Section` list

class `cdrouter.captures.Summary` (**kwargs)
Model for CDRouter Capture Summaries.

Parameters

- **structure** – (optional) `captures.Structure` object
- **summaries** – (optional) `captures.SummaryPacket` list

class `cdrouter.captures.Field` (**kwargs)
Model for CDRouter Capture Fields.

Parameters

- **name** – (optional) Field name as string.
- **show_name** – (optional) Either *true* or *false* as string.
- **hide** – (optional) Either *true* or *false* as string.
- **size** – (optional) Field size as string.
- **pos** – (optional) Field position as string.
- **show** – (optional) Either *true* or *false* as string.
- **fields** – (optional) `captures.Field` list
- **protos** – (optional) `captures.Proto` list

class `cdrouter.captures.Proto` (**kwargs)
Model for CDRouter Capture Proto.

Parameters

- **name** – (optional) Field name as string.
- **pos** – (optional) Field position as string.
- **show** – (optional) Either *true* or *false* as string.

- **show_name** – (optional) Either *true* or *false* as string.
- **value** – (optional) Field value as string.
- **size** – (optional) Field size as string.
- **fields** – (optional) *captures.Field* list
- **protos** – (optional) *captures.Proto* list

class `cdrouter.captures.Packet` (**kwargs)
Model for CDRouter Capture Packet.

Parameters **protos** – (optional) *captures.Proto* list

class `cdrouter.captures.Decode` (**kwargs)
Model for CDRouter Capture Decode.

Parameters **packets** – (optional) *captures.Packet* list

class `cdrouter.captures.ASCIIByte` (**kwargs)
Model for CDRouter Capture ASCII bytes.

Parameters

- **byte** – (optional) Byte value as string.
- **pos** – (optional) Byte position as int.

class `cdrouter.captures.ASCIILine` (**kwargs)
Model for CDRouter Capture ASCII lines.

Parameters

- **raw** – (optional) Raw line as string.
- **offset** – (optional) Line offset as string.
- **ascii** – (optional) *captures.ASCIIByte* list
- **hex** – (optional) *captures.ASCIIByte* list

class `cdrouter.captures.ASCIIFrame` (**kwargs)
Model for CDRouter Capture ASCII frame.

Parameters

- **name** – (optional) Frame name as string.
- **lines** – (optional) *captures.ASCIILine* list

class `cdrouter.captures.ASCII` (**kwargs)
Model for CDRouter Capture ASCII.

Parameters

- **frame** – (optional) *captures.ASCIIFrame* list
- **reassembled** – (optional) *captures.ASCIIFrame* list

class `cdrouter.captures.CloudShark` (**kwargs)
Model for CDRouter CloudShark uploads.

Parameters **url** – (optional) CloudShark URL as a string.

2.12 cdrouter.highlights

class `cdrouter.highlights.HighlightsService` (*service*)

Service for accessing CDRouter Highlights.

create (*id, seq, resource*)

Create a highlight.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **resource** – `highlights.Highlight` object

Returns `highlights.Highlight` object

Return type `highlights.Highlight`

create_or_edit (*id, seq, resource*)

Create or edit a highlight.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **resource** – `highlights.Highlight` object

Returns `highlights.Highlight` object

Return type `highlights.Highlight`

delete (*id, seq, line*)

Delete a highlight.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **line** – Line number in TestResult's logfile as string.

edit (*id, seq, resource*)

Edit a highlight.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.
- **resource** – `highlights.Highlight` object

Returns `highlights.Highlight` object

Return type `highlights.Highlight`

get (*id, seq, line*)

Get a highlight.

Parameters

- **id** – Result ID as string.

- **seq** – TestResult sequence ID as string.
- **line** – Line number in TestResult’s logfile as string.

Returns *highlights.Highlight* object

list (*id, seq*)

Get a list of highlights.

Parameters

- **id** – Result ID as string.
- **seq** – TestResult sequence ID as string.

Returns *highlights.Highlight* list

class `cdrouter.highlights.Highlight` (**kwargs)

Model for CDRouter Highlights.

Parameters

- **id** – (optional) Result ID as string.
- **seq** – (optional) TestResult sequence ID as string.
- **line** – (optional) Line number in TestResult’s logfile as string.
- **color** – (optional) Highlight color as string.

2.13 cdrouter.imports

class `cdrouter.imports.ImportService` (*service*)

Service for accessing CDRouter Imports.

commit (*id, impreq*)

Commit a staged import.

Parameters

- **id** – Staged import ID as string.
- **impreq** – *imports.Request* object

Returns *imports.Request* object

Return type *imports.Request*

delete (*id*)

Delete a staged import.

Parameters **id** – Staged import ID as string.

get (*id*)

Get a staged import.

Parameters **id** – Staged import ID as string.

Returns *imports.Import* object

Return type *imports.Import*

get_commit_request (*id*)

Get a commit request for a staged import.

Parameters **id** – Staged import ID as string.

Returns *imports.Request* object

Return type *imports.Request*

list()

Get a list of staged (in-progress) imports.

Returns *imports.Import* list

stage_import_from_file (*fd*, *filename='upload.gz'*)

Stage an import from a file upload.

Parameters

- **fd** – File-like object to upload.
- **filename** – (optional) Filename to use for import as string.

Returns *imports.Import* object

stage_import_from_filesystem (*filepath*)

Stage an import from a filesystem path.

Parameters **filepath** – Local filesystem path as string.

Returns *imports.Import* object

stage_import_from_url (*url*, *token=None*, *insecure=False*)

Stage an import from a URL to another CDRouter system.

Parameters

- **url** – URL to import as string.
- **token** – (optional) API token to use as string (may be required if importing from a CDRouter 10+ system).
- **insecure** – (optional) Allow insecure HTTPS connections if bool *True*.

Returns *imports.Import* object

class `cdrouter.imports.Import` (***kwargs*)

Model for CDRouter Staged Imports.

Parameters

- **id** – (optional) Staged import ID as string.
- **user_id** – (optional) User ID as string.
- **created** – (optional) Creation time as *DateTime*.
- **updated** – (optional) Last-updated time as *DateTime*.
- **archive** – (optional) Path to archive as string.
- **path** – (optional) Local filepath as string.
- **url** – (optional) URL to fetch as string.
- **insecure** – (optional) Allow insecure HTTPS connections if bool *True*.
- **size** – (optional) Size of import as int.

class `cdrouter.imports.Response` (***kwargs*)

Model for CDRouter Import Responses.

Parameters

- **imported** – (optional) Bool *True* if resource imported successfully.
- **id** – (optional) Resource ID as string.
- **name** – (optional) Resource name as string.
- **message** – (optional) Response message as string.

class `cdrouter.imports.Request` (**kwargs)
Model for CDRouter Import Requests.

Parameters

- **replace_existing** – (optional) Bool *True* if existing resources should be overwritten.
- **configs** – (optional) Dict of configs.
- **devices** – (optional) Dict of devices.
- **packages** – (optional) Dict of packages.
- **results** – (optional) Dict of results.

2.14 cdrouter.exports

class `cdrouter.exports.ExportsService` (*service*)
Service for accessing CDRouter Exports.

bulk_export (*config_ids=None, device_ids=None, package_ids=None, result_ids=None, exclude_captures=False*)

Bulk export a set of configs, devices, packages and results.

Parameters

- **config_ids** – (optional) Int list of config IDs.
- **device_ids** – (optional) Int list of device IDs.
- **package_ids** – (optional) Int list of package IDs.
- **result_ids** – (optional) Int list of result IDs.
- **exclude_captures** – (optional) Exclude capture files if bool *True*.

Return type tuple (*io.BytesIO, 'filename'*)

2.15 cdrouter.history

class `cdrouter.history.HistoryService` (*service*)
Service for accessing CDRouter History.

list (*filter=None, type=None, sort=None, limit=None, page=None*)

Get a list of history entries.

Parameters

- **filter** – (optional) Filters to apply as a string list.
- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.
- **limit** – (optional) Limit returned list length.

- **page** – (optional) Page to return.

Returns *history.History* list

class `cdrouter.history.History` (**kwargs)
Model for CDRouter History entries.

Parameters

- **user_id** – (optional) User ID as string.
- **created** – (optional) Entry creation time as *DateTime*.
- **resource** – (optional) Resource type as string.
- **id** – (optional) Resource ID as string.
- **name** – (optional) Resource name as string.
- **action** – (optional) Action name as string.
- **description** – (optional) Resource description as string.

2.16 cdrouter.system

class `cdrouter.system.SystemService` (*service*)
Service for accessing CDRouter System.

check_for_lounge_upgrade (*email, password*)

Check the CDRouter Support Lounge for eligible upgrades using your Support Lounge email & password.

Parameters

- **email** – CDRouter Support Lounge email as a string.
- **password** – CDRouter Support Lounge password as a string.

Returns *system.Release* object

Return type *system.Release*

diagnostics ()

Get system diagnostics from cdrouter-diag output.

Return type string

edit_preferences (*resource*)

Edit preferences in /usr/cdrouter-data/etc/config.yml.

Parameters **resource** – *system.Preferences* object

Returns *system.Preferences* object

Return type *system.Preferences*

get_preferences ()

Get preferences from /usr/cdrouter-data/etc/config.yml.

Returns *system.Preferences* object

Return type *system.Preferences*

hostname ()

Get system hostname.

Return type string

info()

Get system info from cdrouter-cli -info output.

Return type string

interfaces (*addresses=False*)

Get system interfaces.

Parameters **addresses** – (optional) If bool *True*, include interface addresses.

Returns *system.Interface* list

latest_lounge_release()

Get the latest release of CDRouter from the CDRouter Support Lounge.

Returns *system.ReleaseLatest* object

Return type *system.ReleaseLatest*

live()

Get CDRouter Live info from cdrouter-cli -live output.

Return type string

lounge_update_license()

Download & install a license for your CDRouter system from the CDRouter Support Lounge.

Returns *system.Upgrade* object

Return type *system.Upgrade*

lounge_upgrade (*email, password, release_id*)

Download & install an upgrade from the CDRouter Support Lounge using your Support Lounge email & password. Please note that any running tests will be stopped.

Parameters

- **email** – CDRouter Support Lounge email as a string.
- **password** – CDRouter Support Lounge password as a string.
- **release_id** – Release ID as an int.

Returns *system.Upgrade* object

Return type *system.Upgrade*

manual_update_license (*fd, filename='cdrouter.lic'*)

Update the license on your CDRouter system manually by uploading a .lic license from the CDRouter Support Lounge.

Parameters

- **fd** – File-like object to upload.
- **filename** – (optional) Filename to use for license as string.

Returns *system.Upgrade* object

Return type *system.Upgrade*

manual_upgrade (*fd, filename='cdrouter.bin'*)

Upgrade CDRouter manually by uploading a .bin installer from the CDRouter Support Lounge. Please note that any running tests will be stopped.

Parameters

- **fd** – File-like object to upload.

- **filename** – (optional) Filename to use for installer as string.

Returns *system.Upgrade* object

Return type *system.Upgrade*

restart ()

Restart CDRouter web interface. Please note that any running tests will be stopped.

time ()

Get system time.

Return type string

class `cdrouter.system.Version` (**kwargs)

Model for CDRouter Release Versions.

Parameters

- **raw** – (optional) Raw version as string.
- **major** – (optional) Major version as int.
- **minor** – (optional) Minor version as int.
- **build** – (optional) Build version as int.

class `cdrouter.system.ReleaseLatest` (**kwargs)

Model for CDRouter Latest Releases.

Parameters

- **latest** – (optional) *system.Version* object.
- **current** – (optional) *system.Version* object.
- **newer** – (optional) Bool *True* if newer release available.

class `cdrouter.system.Testsuite` (**kwargs)

Model for CDRouter Testsuite names.

Parameters

- **shortname** – (optional) Brief testsuite name as string.
- **name** – (optional) Full testsuite name as string.

class `cdrouter.system.Release` (**kwargs)

Model for CDRouter Releases.

Parameters

- **build_date** – (optional) Build date as string.
- **filename** – (optional) Installer filename as string.
- **version** – (optional) *system.Version* object
- **id** – (optional) Release ID as int.
- **article_id** – (optional) Release article ID as int.
- **testsuite** – (optional) *system.Testsuite* object

class `cdrouter.system.Upgrade` (**kwargs)

Model for CDRouter Upgrades.

Parameters

- **success** – (optional) Bool *True* if successful.
- **installer** – (optional) Installer filename as string.
- **output** – (optional) Output as string.
- **error** – (optional) Error output as string.

class `cdrouter.system.InterfaceFlags` (**kwargs)
Model for CDRouter Interface Flags.

Parameters

- **up** – (optional) Bool *True* if interface is up.
- **broadcast** – (optional) Bool *True* if interface is broadcasting.
- **loopback** – (optional) Bool *True* if interface is a loopback interface.
- **point_to_point** – (optional) Bool *True* if interface is a point-to-point interface.
- **multicast** – (optional) Bool *True* if interface is multicast.

class `cdrouter.system.InterfaceAddr` (**kwargs)
Model for CDRouter Interface Addresses.

Parameters

- **network** – (optional) Interface network as a string.
- **address** – (optional) Interface address as a string.

class `cdrouter.system.Interface` (**kwargs)
Model for CDRouter Interfaces.

Parameters

- **index** – (optional) Interface index as a string.
- **mtu** – (optional) Interface MTU as a string.
- **name** – (optional) Interface name as a string.
- **hardware_addr** – (optional) Interface hardware address as a string.
- **flags** – (optional) `system.InterfaceFlags` object
- **addresses** – (optional) `system.InterfaceAddr` list
- **multicast_addresses** – (optional) `system.InterfaceAddr` list

class `cdrouter.system.Preferences` (**kwargs)
Model for CDRouter Preferences.

Parameters

- **automatic_logic** – (optional) Bool *True* if Automatic Login is enabled.
- **cloudshark_appliance_autotags** – (optional) CloudShark Appliance autotags as a string.
- **cloudshark_appliance_insecure** – (optional) String *yes* if insecure CloudShark Appliance URLs are allowed.
- **cloudshark_appliance_password** – (optional) CloudShark Appliance password as a string.
- **cloudshark_appliance_tags** – (optional) CloudShark Appliance tags as a string.

- **cloudshark_appliance_token** – (optional) CloudShark Appliance API token as a string.
- **cloudshark_appliance_url** – (optional) CloudShark Appliance URL as a string.
- **cloudshark_appliance_username** – (optional) CloudShark Appliance username as a string.
- **hostname** – (optional) CDRouter system’s hostname as a string.
- **migrated** – (optional) Migrated resources as a string list.
- **port** – (optional) CDRouter’s HTTP port as an int.
- **https** – (optional) CDRouter’s HTTPS port as an int.
- **force_https** – (optional) If string *yes*, redirect HTTP connections to CDRouter to HTTPS.
- **use_cloudshark** – (optional) If string *yes*, use CloudShark Appliance for capture viewing.
- **log_timestamp_format** – (optional) Log timestamp format, must be string *short* or *long*.
- **editor_keymap** – (optional) Config editor keymap, must be string *default*, *emacs* or *vim*.
- **lounge_url** – (optional) CDRouter Support Lounge URL as a string.
- **lounge_insecure** – (optional) If bool *True*, allow insecure HTTPS connections to the CDRouter Support Lounge.

2.17 cdrouter.tags

class `cdrouter.tags.TagsService` (*service*)

Service for accessing CDRouter Tags.

delete (*name*)

Delete a tag.

Parameters **name** – Tag name as string.

edit (*resource*)

Edit a tag.

Parameters **resource** – *tags.Tag* object

Returns *tags.Tag* object

Return type *tags.Tag*

get (*name*)

Get a tag.

Parameters **name** – Tag name as string.

Returns *tags.Tag* object

Return type *tags.Tag*

list (*resource=None, sort=None*)

Get a list of tags.

Parameters

- **resource** – (optional) Restrict to given resource type as string.
- **sort** – (optional) Sort fields to apply as string list.

Returns *tags.Tag* list

class `cdrouter.tags.Tag` (***kwargs*)
Model for CDRouter Tags.

Parameters

- **resource** – (optional) Resource type as string.
- **id** – (optional) Resource ID as string.
- **name** – (optional) Resource name as string.
- **count** – (optional) Resource tag count as an int.
- **tags** – (optional) Resource tags as a string list.
- **configs** – (optional) *tags.ResourceTags* list
- **devices** – (optional) *tags.ResourceTags* list
- **packages** – (optional) *tags.ResourceTags* list
- **results** – (optional) *tags.ResourceTags* list

class `cdrouter.tags.ResourceTags` (***kwargs*)
Model for CDRouter Resource Tags.

Parameters

- **id** – (optional) Resource ID as string.
- **name** – (optional) Resource name as string.
- **tags** – (optional) Resource tags as a string list.

2.18 cdrouter.testsuites

class `cdrouter.testsuites.TestsuitesService` (*service*)
Service for accessing CDRouter Testsuites.

get_error (*name*)
Get an error.

Parameters **name** – Error name as string.

Returns *testsuites.Error* object

Return type *testsuites.Error*

get_group (*name*)
Get a group.

Parameters **name** – Group name as string.

Returns *testsuites.Group* object

Return type *testsuites.Group*

get_label (*name*)
Get a label.

Parameters **name** – Label name as string.

Returns *testsuites.Label* object

Return type *testsuites.Label*

get_module (*name*)

Get a module.

Parameters **name** – Module name as string.

Returns *testsuites.Module* object

Return type *testsuites.Module*

get_test (*name*)

Get a test.

Parameters **name** – Test name as string.

Returns *testsuites.Test* object

Return type *testsuites.Test*

get_testvar (*name*)

Get a testvar.

Parameters **name** – Testvar name as string.

Returns *testsuites.Testvar* object

Return type *testsuites.Testvar*

info ()

Get testsuite info.

Returns *testsuites.Info* object

Return type *testsuites.Info*

list_errors (*filter=None, type=None, sort=None*)

Get a list of errors.

Parameters

- **filter** – (optional) Filters to apply as a string list.
- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.

Returns *testsuites.Error* list

list_groups (*filter=None, type=None, sort=None*)

Get a list of groups.

Parameters

- **filter** – (optional) Filters to apply as a string list.
- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.

Returns *testsuites.Group* list

list_labels (*filter=None, type=None, sort=None*)

Get a list of labels.

Parameters

- **filter** – (optional) Filters to apply as a string list.
- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.

Returns *testsuites.Label* list

list_modules (*filter=None, type=None, sort=None*)

Get a list of modules.

Parameters

- **filter** – (optional) Filters to apply as a string list.
- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.

Returns *testsuites.Module* list

list_tests (*filter=None, type=None, sort=None*)

Get a list of tests.

Parameters

- **filter** – (optional) Filters to apply as a string list.
- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.

Returns *testsuites.Test* list

list_testvars (*filter=None, type=None, sort=None*)

Get a list of testvars.

Parameters

- **filter** – (optional) Filters to apply as a string list.
- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.

Returns *testsuites.Testvar* list

search (*query*)

Perform full text search of testsuite.

Parameters **query** – Search query as a string.

Returns *testsuites.Search* object

Return type *testsuites.Search*

class `cdrouter.testsuites.Info` (***kwargs*)

Model for CDRouter Testsuite Info.

Parameters

- **build_info** – (optional) CDRouter build info as string.
- **copyright** – (optional) CDRouter copyright info as string.
- **customer** – (optional) Customer name from license as string.
- **lifetime** – (optional) License lifetime as string.

- **os** – (optional) OS name as string.
- **serial_number** – (optional) NTA serial number as string.
- **system_id** – (optional) CDRouter system ID as string.
- **testsuite** – (optional) CDRouter testsuite name as string.
- **release** – (optional) CDRouter release as string.
- **addons** – (optional) Enabled CDRouter addons as string list.
- **all_addons** – (optional) All CDRouter addons as string list.

class `cdrouter.testsuites.Group` (**kwargs)
Model for CDRouter Groups.

Parameters

- **id** – (optional) Testsuite ID as an int.
- **name** – (optional) Name as string.
- **index** – (optional) Index as int.
- **test_count** – (optional) Test count as int.
- **modules** – (optional) Modules as string list.

class `cdrouter.testsuites.Module` (**kwargs)
Model for CDRouter Modules.

Parameters

- **id** – (optional) Testsuite ID as an int.
- **name** – (optional) Name as string.
- **index** – (optional) Index as int.
- **group** – (optional) Group name as string.
- **description** – (optional) Module description as string.
- **test_count** – (optional) Test count as int.
- **tests** – (optional) Tests as string list.
- **labels** – (optional) Labels as string list.
- **aliases** – (optional) Aliases as string list.

class `cdrouter.testsuites.Test` (**kwargs)
Model for CDRouter Tests.

Parameters

- **id** – (optional) Testsuite ID as an int.
- **name** – (optional) Name as string.
- **index** – (optional) Index as int.
- **group** – (optional) Group name as string.
- **module** – (optional) Module name as string.
- **synopsis** – (optional) Test synopsis as string.
- **description** – (optional) Test description as string.

- **labels** – (optional) Labels as string list.
- **aliases** – (optional) Aliases as string list.
- **testvars** – (optional) Testvars as string list.
- **skip_name** – (optional) Skip name as string.
- **skip_reason** – (optional) Skip reason as string.

class `cdrouter.testsuites.Label` (***kwargs*)
Model for CDRouter Skip Labels.

Parameters

- **id** – (optional) Testsuite ID as an int.
- **name** – (optional) Name as string.
- **index** – (optional) Index as int.
- **reason** – (optional) Skip reason as string.
- **description** – (optional) Description as string.
- **modules** – (optional) Modules as string list.
- **tests** – (optional) Tests as string list.

class `cdrouter.testsuites.Error` (***kwargs*)
Model for CDRouter Start Errors.

Parameters

- **id** – (optional) Testsuite ID as an int.
- **name** – (optional) Name as string.
- **index** – (optional) Index as int.
- **description** – (optional) Description as string.

class `cdrouter.testsuites.Testvar` (***kwargs*)
Model for CDRouter Start Errors.

Parameters

- **id** – (optional) Testsuite ID as an int.
- **name** – (optional) Name as a string.
- **index** – (optional) Index as an int.
- **humanname** – (optional) Human-readable name as a string.
- **display** – (optional) Display name as a string.
- **dataclass** – (optional) Data-type as a string.
- **addedin** – (optional) Added-in info as a string.
- **deprecatedin** – (optional) Deprecated-in info as a string.
- **obsoletedin** – (optional) Obsoleted-in info as a string.
- **min** – (optional) Minimum value as a string.
- **max** – (optional) Maximum value as a string.
- **length** – (optional) Required length as a string.

- **description** – (optional) Description as a string.
- **default** – (optional) Default value as a string.
- **defaultdisabled** – (optional) Bool *True* if testvar has no default value.
- **dyndefault** – (optional) Bool *True* if testvar’s default value is dynamically calculated.
- **keywords** – (optional) Accepted values as a string list.
- **alsoaccept** – (optional) Also-accepted values as a string list.
- **wildcard** – (optional) Bool *True* if testvar is a wildcard testvar.
- **instances** – (optional) Number of allowed wildcard instances as an int.
- **parent** – (optional) Parent wildcard testvar name as a string.
- **children** – (optional) Child testvars as a string list.
- **tests** – (optional) Test names as a string list.

class `cdrouter.testsuites.Search` (***kwargs*)
Model for CDRouter Testsuite Searches.

Parameters

- **addons** – (optional) *testsuites.Group* list
- **modules** – (optional) *testsuites.Module* list
- **tests** – (optional) *testsuites.Test* list
- **reasons** – (optional) *testsuites.Label* list
- **errors** – (optional) *testsuites.Error* list
- **testvars** – (optional) *testsuites.Testvar* list

2.19 cdrouter.users

class `cdrouter.users.UsersService` (*service*)
Service for accessing CDRouter Users.

bulk_copy (*ids*)
Bulk copy a set of users.

Parameters *ids* – String list of user IDs.

Returns *users.User* list

bulk_delete (*ids=None, filter=None, type=None, all=False*)
Bulk delete a set of users.

Parameters

- **ids** – (optional) String list of user IDs.
- **filter** – (optional) String list of filters.
- **type** – (optional) *union* or *inter* as string.
- **all** – (optional) Apply to all if bool *True*.

bulk_edit (*_fields, ids=None, filter=None, type=None, all=False*)
Bulk edit a set of users.

Parameters

- **_fields** – *users.User* object
- **ids** – (optional) String list of user IDs.
- **filter** – (optional) String list of filters.
- **type** – (optional) *union* or *inter* as string.
- **all** – (optional) Apply to all if bool *True*.

change_password (*id*, *new*, *old=None*, *change_token=True*)

Change a user's password.

Parameters

- **id** – User ID as string.
- **new** – New password as string.
- **old** – (optional) Old password as string (required if performing action as non-admin).
- **change_token** – (optional) If bool *True*, also generate a new API token for user.

Returns *users.User* object

Return type *users.User*

change_token (*id*)

Change a user's token.

Parameters **id** – User ID as string.

Returns *users.User* object

Return type *users.User*

create (*resource*)

Create a new user.

Parameters **resource** – *users.User* object

Returns *users.User* object

Return type *users.User*

delete (*id*)

Delete a user.

Parameters **id** – User ID as string.

edit (*resource*)

Edit a user.

Parameters **resource** – *users.User* object

Returns *users.User* object

Return type *users.User*

get (*id*)

Get a user.

Parameters **id** – User ID as string.

Returns *users.User* object

Return type *users.User*

list (*filter=None, type=None, sort=None, limit=None, page=None*)
Get a list of users.

Parameters

- **filter** – (optional) Filters to apply as a string list.
- **type** – (optional) *union* or *inter* as string.
- **sort** – (optional) Sort fields to apply as string list.
- **limit** – (optional) Limit returned list length.
- **page** – (optional) Page to return.

Returns *users.User* list

class `cdrouter.users.User` (**kwargs)
Model for CDRouter Users.

Parameters

- **id** – (optional) User ID as string.
- **admin** – (optional) Bool *True* if user is an administrator.
- **disabled** – (optional) Bool *True* if user is disabled.
- **name** – (optional) User name as string.
- **description** – (optional) User description as string.
- **created** – (optional) User creation time as *DateTime*.
- **updated** – (optional) User last-updated time as *DateTime*.
- **token** – (optional) User's API token as string.

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