
cdrouter.py Documentation

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CHAPTER 1

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

First create a *CDRouter* object, passing it the URL of your CDRouter system, for example `http://localhost`, `https://cdrouter.example.com` or `http://172.20.0.1:8015`. If your CDRouter system uses a self-signed certificate for HTTPS connections (the default), you will need to pass in `insecure=True` to disable certificate validation. If Automatic Login is not enabled on your CDRouter system, you will need to provide authentication credentials by passing in an API token via the `token` parameter or a username and password via the `username` and `password` parameters. If `token` is not specified, it will default to the value of the `CDROUTER_API_TOKEN` environment variable. *CDRouter* will prompt for a username and password as necessary if Automatic Login is not enabled and an API token is not provided.

```
import time

from cdrouter import CDRouter
from cdrouter.cdrouter import CDRouterError
from cdrouter.filters import Field as field
from cdrouter.jobs import Job
from cdrouter.jobs import Options
```

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

for p in c.packages.iter_list(filter=field('tags').contains('noretry')):
    print('Launching package {}'.format(p.name))

    try:
        j = c.jobs.launch(Job(package_id=p.id, options=Options(extra_cli_args='-
↪testvar myvar=example')))
    except CDRouterError as ce:
        print('Error launching job: {}'.format(ce))
        continue

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

    print('    Result-ID: {}'.format(j.result_id))

print('done.')
```

More examples of using cdrouter can be found [here](#). Please see the *Reference* page for more information on available fields and methods for each class.

Python client for the CDRouter Web API.

2.1 CDRouter

2.1.1 CDRouter

class `cdrouter.CDRouter` (*base*, *token=None*, *username=None*, *password=None*, *_getuser=<function _getuser_default>*, *_getpass=<function _getpass_default>*, *retries=3*, *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.
- **username** – (optional) Username as string. Can be omitted if `token` is specified or Automatic Login is enabled. If omitted, `_getuser` will be called when a username is required.
- **password** – (optional) Password as string. Can be omitted if `token` is specified or Automatic Login is enabled. If omitted, `_getpass` will be called when a password is required.
- **_getuser** – (optional) If `username` is *None*, function to be called as `_getuser(base)` which returns a username as a string. If `_getuser` is *None*, `cdrouter` will print a prompt to stdout and read the username from stdin.
- **_getpass** – (optional) If `password` is *None*, a function to be called as `_getpass(base, username)` which returns user's password as a string. If `_getpass` is *None*, `cdrouter` will print a password prompt to stdout and read the password from stdin.

- **retries** – (optional) The number of times to authenticate with the CDRouter system before giving up as an int.
- **insecure** – (optional) If bool *True* and *base* is an HTTPS URL, skip certificate verification and allow insecure connections to the CDRouter system.

alerts = None

alerts.AlertsService object

annotations = None

annotations.AnnotationsService object

attachments = None

attachments.AttachmentsService object

authenticate (*retries=3*)

Set API token by authenticating via username/password.

Parameters **retries** – Number of authentication attempts to make before giving up as an int.

Returns Learned API token

Return type string

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

2.1.2 CDRouterError

class `cdrouter.cdrouter.CDRouterError` (*args, **kwargs)
 Class for representing CDRouter Web API errors.

2.1.3 Links

class `cdrouter.cdrouter.Links` (**kwargs)
 Class representing paging information returned by `list` calls to the CDRouter Web API.

Parameters

- **first** – (optional) First page number as an int.
- **last** – (optional) Last page number as an int.
- **current** – (optional) Current page number as an int.
- **total** – (optional) Total element count across all pages as an int.
- **limit** – (optional) Resources per page limit as an int.
- **next** – (optional) Next page number as an int.
- **prev** – (optional) Previous page number as an int.

2.1.4 Share

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

Parameters

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

2.2 Filters

2.2.1 Field

class `cdrouter.filters.Field` (*args)
 Class for constructing CDRouter Web API filters. Field objects can be passed to `filter` parameters to make constructing filters easier.

The `value` parameter passed to Field methods is converted to a string using the builtin `str` function. Bool values are additionally lowercased such that bool `True` becomes string `'true'` and `False` becomes string `'false'`. The Field methods `contains`, `contained_by` and `overlaps` accept a variable number of values which are converted into a list in accordance with the API's syntax. For example, the int values `1, 2,`

3 is converted to the string '{1,2,3}' and the string values 'one', 'two', 'three' is converted to the string '{one,two,three}'.

Usage:

```
from cdrouter.filters import Field as field
# each pair of filters below are equivalent
c.packages.list(filter=[
    field('id').eq(123),
    'id=123',
    #
    field('use_as_testlist').ne(True),
    'use_as_testlist!=true',
    #
    field('name').not_().match('^(foo|bar)$', ignorecase=True),
    'name!~*^(foo|bar)$',
    #
    field('tags').contains('foo', 'bar', 'baz'),
    'tags@>{foo,bar,baz}',
])
```

See [this](#) page for more details on CDRouter Web API filters.

contained_by (*args)

Construct an array contained by (<@) filter.

Parameters *args* – Filter values

Returns *filters.Field* object

Return type *filters.Field*

contains (*args)

Construct an array contains (@>) filter.

Parameters *args* – Filter values

Returns *filters.Field* object

Return type *filters.Field*

eq (value)

Construct an equal to (=) filter.

Parameters *value* – Filter value

Returns *filters.Field* object

Return type *filters.Field*

ge (value)

Construct a greater than or equal to (>=) filter.

Parameters *value* – Filter value

Returns *filters.Field* object

Return type *filters.Field*

gt (value)

Construct a greater than (>) filter.

Parameters *value* – Filter value

Returns *filters.Field* object

Return type *filters.Field*

le (*value*)

Construct a less than or equal to (<=) filter.

Parameters **value** – Filter value

Returns *filters.Field* object

Return type *filters.Field*

lt (*value*)

Construct a less than (<) filter.

Parameters **value** – Filter value

Returns *filters.Field* object

Return type *filters.Field*

match (*value*, *ignorecase=False*)

Construct a regexp match (~) filter. Combine with `not_` method to construct a negative regexp match (!~) filter.

Parameters

- **value** – Filter value
- **ignorecase** – If bool *True*, make match case insensitive (~*, !~*)

Returns *filters.Field* object

Return type *filters.Field*

ne (*value*)

Construct a not equal to (!=) filter.

Parameters **value** – Filter value

Returns *filters.Field* object

Return type *filters.Field*

not_ ()

Negate the filter. Not supported by `contains`, `contained_by` or `overlaps` methods.

Returns *filters.Field* object

Return type *filters.Field*

overlaps (**args*)

Construct an array overlaps (&&) filter.

Parameters **args** – Filter values

Returns *filters.Field* object

Return type *filters.Field*

2.3 Configs

2.3.1 ConfigsService

class `cdrouter.configs.ConfigsService` (*service*)

Service for accessing CDRouter Configs.

bulk_copy (*ids*)

Bulk copy a set of configs.

Parameters **ids** – Int 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) Int 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) Int 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 an int.
- **testvars** – `configs.Testvar` list

Returns `configs.Testvar` list

bulk_export (*ids*)

Bulk export a set of configs.

Parameters **ids** – Int 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 an int.

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 an int.
- **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 an int.
- **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 an int.
- **resource** – `configs.Testvar` object.

Returns `configs.Testvar` object

Return type `configs.Testvar`

export (*id*)

Export a config.

Parameters **id** – Config ID as an int.

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

get (*id*)

Get a config.

Parameters **id** – Config ID as an int.

Returns `configs.Config` object

Return type `configs.Config`

get_by_name (*name*)

Get a config by name.

Parameters **name** – Config name 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 an int.

Return type string

get_shares (*id*)

Get shares for a config.

Parameters **id** – Config ID as an int.

Returns `cdrouter.Share` list

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

Get a testvar from a config.

Parameters

- **id** – Config ID as an int.
- **name** – Testvar name as string.
- **group** – (optional) Testvar group as string.

Returns `configs.Testvar` object

Return type `configs.Testvar`

iter_list (**args, **kwargs*)

Get a list of configs. Whereas `list` fetches a single page of configs according to its `limit` and `page` arguments, `iter_list` returns all configs by internally making successive calls to `list`.

Parameters

- **args** – Arguments that `list` takes.

- **kwargs** – Optional arguments that `list` takes.

Returns `configs.Config` list

list (*filter=None, type=None, sort=None, limit=None, page=None, detailed=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.
- **detailed** – (optional) Return all fields if Bool *True*.

Returns `configs.Page` object

list_testvars (*id*)
Get a list of a config's testvars.

Parameters **id** – Config ID as an int.

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`

2.3.2 Config

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

Parameters

- **id** – (optional) Config ID as an int.
- **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 an int.
- **result_id** – (optional) Result ID as an int (if a config snapshot).
- **tags** – (optional) Tags as string list.
- **note** – (optional) Note as string.

2.3.3 Page

class `cdrouter.configs.Page`
Named tuple for a page of list response data.

Parameters

- **data** – `configs.Config` list
- **links** – `cdrouter.Links` object

2.3.4 ConfigError

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.

2.3.5 CheckConfig

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

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

2.3.6 UpgradeConfig

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

Parameters

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

2.3.7 Networks

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.

2.3.8 Testvar

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 Devices

2.4.1 DevicesService

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

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

Parameters **ids** – Int 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) Int 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) Int 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` – Int list of device IDs.

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

connect (*id*)

Open proxy connection to a device's management interface.

Parameters `id` – Device ID as an int.

Returns `devices.Connection` object

Return type *devices.Connection*

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 an int.

disconnect (*id*)

Close proxy connection to a device's management interface.

Parameters `id` – Device ID as an int.

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 an int.
- `user_ids` – User IDs as int list.

Returns `cdrouter.Share` list

export (*id*)

Export a device.

Parameters `id` – Device ID as an int.

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

get (*id*)

Get a device.

Parameters `id` – Device ID as an int.

Returns `devices.Device` object

Return type *devices.Device*

get_by_name (*name*)

Get a device by name.

Parameters **name** – Device name as string.

Returns `devices.Device` object

Return type `devices.Device`

get_connection (*id*)

Get information on proxy connection to a device's management interface.

Parameters **id** – Device ID as an int.

Returns `devices.Connection` object

Return type `devices.Connection`

get_shares (*id*)

Get shares for a device.

Parameters **id** – Device ID as an int.

Returns `cdrouter.Share` list

iter_list (**args, **kwargs*)

Get a list of devices. Whereas `list` fetches a single page of devices according to its `limit` and `page` arguments, `iter_list` returns all devices by internally making successive calls to `list`.

Parameters

- **args** – Arguments that `list` takes.
- **kwargs** – Optional arguments that `list` takes.

Returns `devices.Device` list

list (*filter=None, type=None, sort=None, limit=None, page=None, detailed=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.
- **detailed** – (optional) Return all fields if Bool `True`.

Returns `devices.Page` object

power_off (*id*)

Power off a device using its power off command.

Parameters **id** – Device ID as an int.

Returns `devices.PowerCmd` object

Return type `devices.PowerCmd`

power_on (*id*)

Power on a device using its power on command.

Parameters **id** – Device ID as an int.

Returns `devices.PowerCmd` object

Return type `devices.PowerCmd`

2.4.2 Device

class `cdrouter.devices.Device` (**kwargs)
Model for CDRouter Devices.

Parameters

- **id** – (optional) Device ID as an int.
- **name** – (optional) Name as string.
- **created** – (optional) Creation time as *DateTime*.
- **updated** – (optional) Last-updated time as *DateTime*.
- **user_id** – (optional) User ID as an int.
- **result_id** – (optional) Result ID as an int (if a device snapshot).
- **attachments_dir** – (optional) Filepath for attachments as string.
- **picture_id** – (optional) Attachment ID for used for device picture as an int.
- **tags** – (optional) Tags as string list.
- **default_ip** – (optional) Default IP as a string
- **default_login** – (optional) Default login as a string
- **default_password** – (optional) Default password as a string
- **location** – (optional) Location as a string
- **device_category** – (optional) Device category as a string
- **manufacturer** – (optional) Manufacturer as a string
- **manufacturer_oui** – (optional) Manufacturer OUI as a string
- **model_name** – (optional) Model name as a string
- **model_number** – (optional) Model number as a string
- **description** – (optional) Description as a string
- **product_class** – (optional) Product class as a string
- **serial_number** – (optional) Serial number as a string
- **hardware_version** – (optional) Hardware version as a string
- **software_version** – (optional) Software version as a string
- **provisioning_code** – (optional) Provisioning code as a string
- **note** – (optional) Note as a string
- **insecure_mgmt_url** – (optional) *True* if insecure HTTPS management URLs are allowed
- **mgmt_url** – (optional) Management URL as a string
- **add_mgmt_addr** – (optional) *True* if address should be configured when opening proxy connection

- **mgmt_interface** – (optional) Interface on which to configure address as string
- **mgmt_addr** – (optional) Address to configure as string
- **power_on_cmd** – (optional) Command to run to power on device as string
- **power_off_cmd** – (optional) Command to run to power off device as string

2.4.3 Page

class `cdrouter.devices.Page`
Named tuple for a page of list response data.

Parameters

- **data** – `devices.Device` list
- **links** – `cdrouter.Links` object

2.5 PowerCmd

class `cdrouter.devices.PowerCmd` (**kwargs)
Model for CDRouter Device Power command result.

Parameters **output** – (optional) Output from power on/off command as string.

2.6 Connection

class `cdrouter.devices.Connection` (**kwargs)
Model for CDRouter Device Connections.

Parameters

- **proxy_port** – (optional) HTTP proxy port as an int.
- **proxy_https** – (optional) HTTPS proxy port as an int.

2.7 Attachments

2.7.1 AttachmentsService

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

create (*id*, *fd*, *filename*=*'attachment-name'*)
Add an attachment to a device.

Parameters

- **id** – Device ID as an int.
- **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 an int.
- **attid** – Attachment ID as an int.

download (*id*, *attid*)

Download a device's attachment.

Parameters

- **id** – Device ID as an int.
- **attid** – Attachment ID as an int.

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 an int.
- **attid** – Attachment ID as an int.

Returns *attachments.Attachment* object

Return type *attachments.Attachment*

iter_list (*id*, **args*, ***kwargs*)

Get a list of attachments. Whereas `list` fetches a single page of attachments according to its `limit` and `page` arguments, `iter_list` returns all attachments by internally making successive calls to `list`.

Parameters

- **id** – Device ID as an int.
- **args** – Arguments that `list` takes.
- **kwargs** – Optional arguments that `list` takes.

Returns *attachments.Attachment* list

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

Get a list of a device's attachments.

Parameters

- **id** – Device ID as an int.
- **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.
- **detailed** – (optional) Return all fields if Bool *True*.

Returns `attachments.Page` object

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 an int.
- **attid** – Attachment ID as an int.
- **size** – (optional) Height in pixels of generated thumbnail.

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

2.7.2 Attachment

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

Model for CDRouter Attachments.

Parameters

- **id** – (optional) Attachment ID as an int.
- **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 an int.

2.7.3 Page

class `cdrouter.attachments.Page`

Named tuple for a page of list response data.

Parameters

- **data** – `attachments.Attachment` list
- **links** – `cdrouter.Links` object

2.8 Jobs

2.8.1 JobsService

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) Int 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 an int.

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 an int.

Returns `jobs.Job` object

Return type *jobs.Job*

iter_list (**args, **kwargs*)

Get a list of jobs. Whereas `list` fetches a single page of jobs according to its `limit` and `page` arguments, `iter_list` returns all jobs by internally making successive calls to `list`.

Parameters

- **args** – Arguments that `list` takes.
- **kwargs** – Optional arguments that `list` takes.

Returns `jobs.Job` list

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, detailed=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.
- **detailed** – (optional) Return all fields if Bool *True*.

Returns `jobs.Page` object

2.8.2 Job

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

Model for CDRouter Jobs.

Parameters

- **id** – (optional) Job ID as an int.
- **status** – (optional) Bool *True* if user is an administrator.
- **options** – (optional) `jobs.Options` object
- **package_id** – (optional) Package ID as an int.
- **package_name** – (optional) Package name as string.
- **config_id** – (optional) Config ID as an int.
- **config_name** – (optional) Config name as string.
- **device_id** – (optional) Device ID as an int.
- **device_name** – (optional) Device name as string.
- **result_id** – (optional) Result ID as an int.
- **user_id** – (optional) User ID as an int.
- **created** – (optional) Job creation time as *DateTime*.
- **updated** – (optional) Job last-updated time as *DateTime*.
- **automatic** – (optional) Bool *True* if job scheduled automatically *DateTime*.
- **run_at** – (optional) Job scheduled run-time *DateTime*.

2.8.3 Options

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.

2.8.4 Page

class `cdrouter.jobs.Page`
Named tuple for a page of list response data.

Parameters

- **data** – `jobs.Job` list
- **links** – `cdrouter.Links` object

2.9 Packages

2.9.1 PackagesService

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 an int.

Returns `packages.Analysis` object

Return type `packages.Analysis`

bulk_copy (*ids*)

Bulk copy a set of packages.

Parameters **ids** – Int 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) Int 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) Int 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** – Int 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 an int.

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 an int.
- **user_ids** – User IDs as int list.

Returns `cdrouter.Share` list

export (*id*)

Export a package.

Parameters **id** – Package ID as an int.

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

get (*id*)

Get a package.

Parameters **id** – Package ID as an int.

Returns `packages.Package` object

Return type `packages.Package`

get_by_name (*name*)

Get a package by name.

Parameters **name** – Package name as string.

Returns `packages.Package` object

Return type `packages.Package`

get_shares (*id*)

Get shares for a package.

Parameters **id** – Package ID as an int.

Returns `cdrouter.Share` list

iter_list (**args, **kwargs*)

Get a list of packages. Whereas `list` fetches a single page of packages according to its `limit` and `page` arguments, `iter_list` returns all packages by internally making successive calls to `list`.

Parameters

- **args** – Arguments that `list` takes.
- **kwargs** – Optional arguments that `list` takes.

Returns `packages.Package` list

list (*filter=None, type=None, sort=None, limit=None, page=None, detailed=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.
- **detailed** – (optional) Return all fields if Bool `True`.

Returns `packages.Page` object

testlist_expanded (*id*)

Get a list of all tests in a package, with any addons, modules or testlists expanded.

Parameters **id** – Package ID as an int.

Return type string list

2.9.2 Package

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

Model for CDRouter Packages.

Parameters

- **id** – (optional) Package ID as an int.

- **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 an int.
- **testlist** – (optional) Testlist as a string list.
- **extra_cli_args** – (optional) Extra CLI args as a string.
- **user_id** – (optional) User ID as an int.
- **agent_id** – (optional) Agent ID as an int.
- **config_id** – (optional) Config ID as an int.
- **result_id** – (optional) Result ID as an int (if a package snapshot).
- **device_id** – (optional) Device ID as an int.
- **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.
- **schedule** – (optional) `packages.Schedule` object

2.9.3 Options

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

Model for CDRouter Package Options.

Parameters

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

2.9.4 Schedule

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

Parameters

- **enabled** – (optional) Bool *True* if schedule is enabled.
- **spec** – (optional) Cron spec schedule as a string.
- **options** – (optional) `results.Options` object

2.9.5 Page

class `cdrouter.packages.Page`
Named tuple for a page of list response data.

Parameters

- **data** – `packages.Package` list
- **links** – `cdrouter.Links` object

2.9.6 Analysis

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.

2.10 Results

2.10.1 ResultsService

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* – Int 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) Int 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) Int 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** – Int list of result IDs.

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

delete (*id*)

Delete a result.

Parameters **id** – Result ID as an int.

diff_stats (*ids*)

Compute diff stats for a set of results.

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

Returns *results.DiffStats* object

Return type *results.DiffStats*

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

Download logdir archive in tgz or zip format.

Parameters

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

Returns `cdrouter.Share` list

export (*id, exclude_captures=False*)

Export a result.

Parameters

- **id** – Result ID as an int.
- **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 an int.

Returns `results.Result` object

Return type *results.Result*

get_logdir_file (*id, filename*)

Download a logdir file.

Parameters

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

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

get_shares (*id*)

Get shares for a result.

Parameters **id** – Result ID as an int.

Returns `cdrouter.Share` list

get_test_metric (*id, name, metric*)

Get a test metric.

Parameters

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

Return type string**iter_list** (*args, **kwargs)

Get a list of results. Whereas `list` fetches a single page of results according to its `limit` and `page` arguments, `iter_list` returns all results by internally making successive calls to `list`.

Parameters

- **args** – Arguments that `list` takes.
- **kwargs** – Optional arguments that `list` takes.

Returns `results.Result` list**list** (filter=None, type=None, sort=None, limit=None, page=None, detailed=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.
- **detailed** – (optional) Return all fields if Bool *True*.

Returns `results.Page` object**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 an int.
- **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 an int.
- **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 an int.

pause_end_of_test (*id*)

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

Parameters **id** – Result ID as an int.

progress_stats (*id*)

Compute progress stats for a result.

Parameters **id** – Result ID as an int.

Returns `results.Progress` object

Return type `results.Progress`

set_stats (*ids*)

Compute stats for a set of results.

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

Returns `results.SetStats` object

Return type `results.SetStats`

single_stats (*id*)

Compute stats for a result.

Parameters **id** – Result ID as an int.

Returns `results.SingleStats` object

Return type `results.SingleStats`

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

Stop a running result.

Parameters

- **id** – Result ID as an int.
- **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 an int.

stop_end_of_test (*id*)

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

Parameters **id** – Result ID as an int.

summary_stats (*id*)

Compute summary stats for a result.

Parameters `id` – Result ID as an int.

Returns `results.SummaryStats` object

Return type `results.SummaryStats`

unpause (`id`)

Unpause a running result.

Parameters `id` – Result ID as an int.

updates (`id`, `update_id=None`)

Get updates of a running result via long-polling. If no updates are available, CDRouter waits up to 10 seconds before sending an empty response.

Parameters

- `id` – Result ID as an int.
- `update_id` – (optional) Update ID as an int.

Returns `results.Update` object

Return type `results.Update`

2.10.2 Result

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

Model for CDRouter Results.

Parameters

- `id` – (optional) Result ID as an int.
- `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.
- `alerts` – (optional) Alert 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 an int.
- **device_id** – (optional) Device ID as an int.
- **config_id** – (optional) Config ID as an int.
- **user_id** – (optional) User ID as an int.
- **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
- **features** – (optional) Dict of feature name strings to `results.Feature` objects.

2.10.3 Page

class `cdrouter.results.Page`

Named tuple for a page of list response data.

Parameters

- **data** – `results.Result` list
- **links** – `cdrouter.Links` object

2.10.4 TestCount

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

Model for CDRouter Test Counts.

Parameters

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

2.10.5 TestDuration

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

Model for CDRouter Test Durations.

Parameters

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

2.10.6 ResultBreakdown

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

Parameters

- **passed** – (optional) Pass count as an int.
- **failed** – (optional) Fail count as an int.
- **skipped** – (optional) Skipped count as an int.
- **alerted** – (optional) Alerted count as an int.

2.10.7 TimeBreakdown

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

Parameters

- **passed** – (optional) Pass duration as an int.
- **failed** – (optional) Fail duration as an int.

2.10.8 SetStats

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

2.10.9 TestResultSummary

class `cdrouter.results.TestResultSummary` (**kwargs)
Model for CDRouter TestResult summaries.

Parameters

- **id** – (optional) Result ID as an int.
- **seq** – (optional) TestResult sequence ID as an int.
- **result** – (optional) Test result as string.
- **alerts** – (optional) Alert count as an int.
- **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.

2.10.10 TestResultDiff

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

Model for CDRouter TestResult diffs.

Parameters

- **name** – (optional) Test name as a string.
- **summaries** – (optional) `results.TestResultSummary` list

2.10.11 DiffStats

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

Model for CDRouter Result Diff Stats.

Parameters **tests** – (optional) `results.TestResultDiff` list

2.10.12 TestResultBreakdown

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

2.10.13 Progress

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.

2.10.14 SingleStats

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

Model for CDRouter Single Results Stats.

Parameters

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

2.10.15 SummaryStats

class `cdrouter.results.SummaryStats` (**kwargs)
Model for CDRouter Summary Results Stats.

Parameters

- **result_breakdown** – (optional) `results.ResultBreakdown` object
- **test_summaries** – (optional) `testresults.TestResult` list

2.10.16 PackageCount

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

Parameters

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

2.10.17 DeviceCount

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

Parameters

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

2.10.18 AllStats

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

2.10.19 Metric

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) First metric value as a float.
- **units** – (optional) First 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 an int.
- **protocol** – (optional) Protocol as a string.
- **direction** – (optional) Direction as a string.
- **value_2** – (optional) Second metric value as a float.
- **units_2** – (optional) Second metric units as a string.
- **device_1** – (optional) First device as a string.
- **device_2** – (optional) Second device as a string.

2.10.20 LogDirFile

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*.

2.10.21 Options

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.

2.10.22 Feature

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

Parameters

- **feature** – (optional) Feature as a string.
- **enabled** – (optional) *True* if feature is enabled.
- **reason** – (optional) Reason as a string

2.11 Update

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

Parameters

- **id** – (optional) Update ID as an int.
- **timestamp** – (optional) System time as *DateTime*.
- **progress** – (optional) `results.Progress` object
- **running** – (optional) `testresults.TestResult` object
- **updates** – (optional) `results.Result`, `testresults.TestResult` and `alerts.Alert` list

2.11.1 Result

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

Parameters

- **id** – (optional) Result ID as an int.
- **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.
- **alerts** – (optional) Alert 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 an int.
- **device_id** – (optional) Device ID as an int.
- **config_id** – (optional) Config ID as an int.
- **user_id** – (optional) User ID as an int.
- **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
- **features** – (optional) Dict of feature name strings to `results.Feature` objects.

2.12 Alerts

2.12.1 AlertsService

class `cdrouter.alerts.AlertsService` (*service*)
Service for accessing CDRouter Alerts.

all_stats (*id*)
Compute alert stats for a single result.

Parameters *id* – Result ID as an int.

Returns `alerts.AllStats` object

Return type *alerts.AllStats*

get (*id, idx*)
Get an alert.

Parameters

- **id** – Result ID as an int.
- **idx** – Alert index as an int.

Returns `alerts.Alert` object

Return type *alerts.Alert*

iter_list (*id, *args, **kwargs*)

Get a list of alerts. Whereas `list` fetches a single page of alerts according to its `limit` and `page` arguments, `iter_list` returns all alerts by internally making successive calls to `list`.

Parameters

- **id** – Result ID as an int.
- **args** – Arguments that `list` takes.

- **kwargs** – Optional arguments that `list` takes.

Returns `alerts.Alert` list

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

Parameters

- **id** – Result ID as an int.
- **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.
- **detailed** – (optional) Return all fields if Bool *True*.

Returns `alerts.Page` object

2.12.2 Alert

class `cdrouter.alerts.Alert` (**kwargs)
Model for CDRouter Alerts.

Parameters

- **id** – (optional) Result ID as an int.
- **idx** – (optional) Alert index as an int.
- **created** – (optional) Creation time as *DateTime*.
- **updated** – (optional) Last-updated time as *DateTime*.
- **seq** – (optional) TestResult sequence ID as an int.
- **loop** – (optional) Loop number as an int.
- **test_name** – (optional) Test name as string.
- **test_description** – (optional) Test description as string.
- **category** – (optional) Alert category as a string.
- **description** – (optional) Alert description as a string.
- **dest_ip** – (optional) Alert destination IP as a string.
- **dest_port** – (optional) Alert destination port as an int.
- **interface** – (optional) Alert incoming interface as a string.
- **payload** – (optional) Alert payload as a base64 string.
- **payload_ascii** – (optional) Alert payload as an ASCII string.
- **payload_hex** – (optional) Alert payload as a hex string.
- **proto** – (optional) Alert protocol as a string.
- **references** – (optional) Alert references as a string list.
- **rev** – (optional) Alert rule revision as an int.

- **rule** – (optional) Alert rule as a string.
- **rule_set** – (optional) Alert rule set as a string.
- **severity** – (optional) Alert severity as an int.
- **sid** – (optional) Alert rule SID as an int.
- **signature** – (optional) Alert signature as a string.
- **src_ip** – (optional) Alert source IP as a string.
- **src_port** – (optional) Alert source port as an int.

2.12.3 Page

class `cdrouter.alerts.Page`

Named tuple for a page of list response data.

Parameters

- **data** – `alerts.Alert` list
- **links** – `cdrouter.Links` object

2.12.4 SeverityCount

class `cdrouter.alerts.SeverityCount` (***kwargs*)

Model for CDRouter Severity Counts.

Parameters

- **name** – (optional) Severity name as a string.
- **severity** – (optional) Severity as an int.
- **count** – (optional) Count as an int.

2.12.5 CategoryCount

class `cdrouter.alerts.CategoryCount` (***kwargs*)

Model for CDRouter Category Counts.

Parameters

- **category** – (optional) Category name as a string.
- **severity** – (optional) Severity as an int.
- **count** – (optional) Count as an int.

2.12.6 RuleSetCount

class `cdrouter.alerts.RuleSetCount` (***kwargs*)

Model for CDRouter RuleSet Counts.

Parameters

- **name** – (optional) RuleSet name as a string.

- **count** – (optional) Count as an int.

2.12.7 SignatureCount

class `cdrouter.alerts.SignatureCount` (***kwargs*)
Model for CDRouter Signature Counts.

Parameters

- **signature** – (optional) Signature name as a string.
- **severity** – (optional) Severity as an int.
- **count** – (optional) Count as an int.

2.12.8 TestCount

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

Parameters

- **name** – (optional) Test name as a string.
- **count** – (optional) Count as an int.

2.12.9 AddrCount

class `cdrouter.alerts.AddrCount` (***kwargs*)
Model for CDRouter Addr Counts.

Parameters

- **addr** – (optional) Address as a string.
- **count** – (optional) Count as an int.

2.12.10 AllStats

class `cdrouter.alerts.AllStats` (***kwargs*)
Model for CDRouter All Alerts Stats.

Parameters

- **severities** – (optional) Dict of ints to `alerts.SeverityCount`
- **categories** – (optional) `alerts.CategoryCount` list
- **rule_sets** – (optional) `alerts.RuleSetCount` list
- **signatures** – (optional) `alerts.SignatureCount` list
- **tests** – (optional) `alerts.TestCount` list
- **frequent_sources** – (optional) `alerts.AddrCount` list
- **frequent_destinations** – (optional) `alerts.AddrCount` list

2.13 TestResults

2.13.1 TestResultsService

class `cdrouter.testresults.TestResultsService` (*service*)

Service for accessing CDRouter TestResults.

edit (*resource*)

Edit a test result.

Parameters **resource** – `testresults.TestResult` object

Returns `testresults.TestResult` object

Return type *testresults.TestResult*

get (*id, seq*)

Get a test result.

Parameters

- **id** – Result ID as an int.
- **seq** – TestResult sequence ID as an int.

Returns `testresults.TestResult` object

Return type *testresults.TestResult*

get_log_plaintext (*id, seq*)

Get a test result's log as plaintext.

Parameters

- **id** – Result ID as an int.
- **seq** – TestResult sequence ID as an int.

Return type string

iter_list (*id, *args, **kwargs*)

Get a list of test results. Whereas `list` fetches a single page of test results according to its `limit` and `page` arguments, `iter_list` returns all test results by internally making successive calls to `list`.

Parameters

- **id** – Result ID as an int.
- **args** – Arguments that `list` takes.
- **kwargs** – Optional arguments that `list` takes.

Returns `testresults.TestResult` list

iter_list_log (*id, seq, *args, **kwargs*)

Get a test result's log. Whereas `list_log` fetches a single range of log lines according to its `limit` and `offset` arguments, `iter_list_log` returns all log lines by internally making successive calls to `list_log`.

Parameters

- **id** – Result ID as an int.
- **seq** – TestResult sequence ID as an int.
- **args** – Arguments that `list_log` takes.

- **kwargs** – Optional arguments that `list_log` takes.

Returns `testresults.Line` list

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

Parameters

- **id** – Result ID as an int.
- **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.
- **detailed** – (optional) Return all fields if Bool *True*.

Returns `testresults.Page` object

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 an int.
- **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_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 an int.
- **seq** – TestResult sequence ID as an int.
- **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`

2.13.2 TestResult

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

Parameters

- **id** – (optional) Result ID as an int.
- **seq** – (optional) TestResult sequence ID as an int.
- **loop** – (optional) Loop number as an int.
- **result** – (optional) Test result as string.
- **alerts** – (optional) Alerts count as int.
- **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.

2.13.3 Page

class `cdrouter.testresults.Page`
Named tuple for a page of list response data.

Parameters

- **data** – `testresults.TestResult` list
- **links** – `cdrouter.Links` object

2.13.4 Summary

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.
- **warnings** – (optional) Warning log count as int.
- **alerts** – (optional) Alert log count as int.

2.13.5 Line

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.
- **timestamp_display** – (optional) Log display timestamp as string.
- **message** – (optional) Log message as string.
- **interface** – (optional) Log interface as string (if packet log).
- **packet** – (optional) Log frame number as an int (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).
- **alert_interface** – (optional) Log alert interface as string (if alert log).
- **alert_index** – (optional) Log alert index as an int (if alert log).
- **alert_src** – (optional) Log alert source address as string (if alert log).
- **alert_dst** – (optional) Log alert destination address as string (if alert log).
- **alert_proto** – (optional) Log alert protocol name as string (if alert log).
- **alert_src_port** – (optional) Log alert source port as int (if alert log).
- **alert_dst_port** – (optional) Log alert destination port as int (if alert log).
- **alert_signature** – (optional) Log alert signature as string (if alert log).
- **alert_severity** – (optional) Log alert severity as int (if alert log).
- **alert_severity_display** – (optional) Log alert display severity as string (if alert log).
- **alert_sid** – (optional) Log alert SID as int (if alert log).
- **alert_rev** – (optional) Log alert revision as int (if alert log).
- **summary** – (optional) `testresults.Summary` object (if section log)

2.13.6 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.

2.14 Annotations

2.14.1 AnnotationsService

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

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

Parameters

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

Returns `annotations.Annotation` object

Return type `annotations.Annotation`

delete (*id, seq, line*)
Delete an annotation.

Parameters

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

edit (*id, seq, resource*)

Edit an annotation.

Parameters

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

Returns `annotations.Annotation` object

Return type `annotations.Annotation`

get (*id, seq, line*)

Get an annotation.

Parameters

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

Returns `annotations.Annotation` object

Return type `annotations.Annotation`

list (*id, seq, detailed=None*)

Get a list of annotations.

Parameters

- **id** – Result ID as an int.
- **seq** – TestResult sequence ID as an int.
- **detailed** – (optional) Return all fields if Bool *True*.

Returns `annotations.Annotation` list

2.14.2 Annotation

class `cdrouter.annotations.Annotation` (***kwargs*)

Model for CDRouter Annotations.

Parameters

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

2.15 Captures

2.15.1 CapturesService

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 an int.
- **seq** – TestResult sequence ID as an int.
- **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 an int.
- **seq** – TestResult sequence ID as an int.
- **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 an int.
- **seq** – TestResult sequence ID as an int.
- **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 an int.
- **seq** – TestResult sequence ID as an int.
- **intf** – Interface name as string.

Returns `captures.Capture` object

Return type `captures.Capture`

list (*id, seq, detailed=None*)

Get a list of captures.

Parameters

- **id** – Result ID as an int.
- **seq** – TestResult sequence ID as an int.
- **detailed** – (optional) Return all fields if Bool *True*.

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 an int.
- **seq** – TestResult sequence ID as an int.
- **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 an int.
- **seq** – TestResult sequence ID as an int.
- **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`

2.15.2 Capture

class `cdrouter.captures.Capture` (**kwargs)

Model for CDRouter Captures.

Parameters

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

2.15.3 Section

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

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

2.15.4 Structure

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

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

2.15.5 SummaryPacket

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

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

2.15.6 Summary

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

Parameters

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

2.15.7 Field

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

2.15.8 Proto

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

2.15.9 Packet

class `cdrouter.captures.Packet` (***kwargs*)

Model for CDRouter Capture Packet.

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

2.15.10 Decode

class `cdrouter.captures.Decode` (***kwargs*)

Model for CDRouter Capture Decode.

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

2.15.11 ASCIIByte

class `cdrouter.captures.ASCIIByte` (***kwargs*)

Model for CDRouter Capture ASCII bytes.

Parameters

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

2.15.12 ASCIILine

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

2.15.13 ASCIIFrame

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

Parameters

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

2.15.14 ASCII

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

Parameters

- **frame** – (optional) `captures.ASCIIFrame` object
- **reassembled** – (optional) `captures.ASCIIFrame` object

2.15.15 CloudShark

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

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

2.16 Highlights

2.16.1 HighlightsService

class `cdrouter.highlights.HighlightsService` (*service*)
Service for accessing CDRouter Highlights.

create (*id, seq, resource*)
Create a highlight.

Parameters

- **id** – Result ID as an int.

- **seq** – TestResult sequence ID as an int.
- **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 an int.
- **seq** – TestResult sequence ID as an int.
- **resource** – `highlights.Highlight` object

Returns `highlights.Highlight` object

Return type *highlights.Highlight*

delete (*id, seq, line*)

Delete a highlight.

Parameters

- **id** – Result ID as an int.
- **seq** – TestResult sequence ID as an int.
- **line** – Line number in TestResult’s logfile as an int.

edit (*id, seq, resource*)

Edit a highlight.

Parameters

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

Returns `highlights.Highlight` object

Return type *highlights.Highlight*

get (*id, seq, line*)

Get a highlight.

Parameters

- **id** – Result ID as an int.
- **seq** – TestResult sequence ID as an int.
- **line** – Line number in TestResult’s logfile as an int.

Returns `highlights.Highlight` object

list (*id, seq, detailed=None*)

Get a list of highlights.

Parameters

- **id** – Result ID as an int.
- **seq** – TestResult sequence ID as an int.

- **detailed** – (optional) Return all fields if Bool *True*.

Returns `highlights.Highlight` list

2.16.2 Highlight

class `cdrouter.highlights.Highlight` (***kwargs*)
Model for CDRouter Highlights.

Parameters

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

2.17 Imports

2.17.1 ImportsService

class `cdrouter.imports.ImportsService` (*service*)
Service for accessing CDRouter Imports.

commit (*id, impreq*)
Commit a staged import.

Parameters

- **id** – Staged import ID as an int.
- **impreq** – `imports.Request` object

Returns `imports.Request` object

Return type *imports.Request*

delete (*id*)
Delete a staged import.

Parameters **id** – Staged import ID as an int.

get (*id*)
Get a staged import.

Parameters **id** – Staged import ID as an int.

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 an int.

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*, *username=None*, *password=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).
- **username** – (optional) API username to use as string (may be required if importing from a CDRouter 10+ system).
- **password** – (optional) API password 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

2.17.2 Import

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

Model for CDRouter Staged Imports.

Parameters

- **id** – (optional) Staged import ID as an int.
- **user_id** – (optional) User ID as an int.
- **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.

2.17.3 Response

class `cdrouter.imports.Response` (***kwargs*)
Model for CDRouter Import Responses.

Parameters

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

2.17.4 Resource

class `cdrouter.imports.Resource` (***kwargs*)
Model for CDRouter Import Resources.

Parameters

- **name** – (optional) Set to string to rename resource, leave empty to keep original
- **should_import** – (optional) Bool *True* if resource should be imported.
- **existing_id** – (optional) Contains ID as an int of existing resource which will be overwritten if *should_import* is *True*.
- **response** – (optional) `imports.Response` object

2.17.5 Request

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 strings to `imports.Resource` objects.
- **devices** – (optional) Dict of strings to `imports.Resource` objects.
- **packages** – (optional) Dict of strings to `imports.Resource` objects.
- **results** – (optional) Dict of strings to `imports.Resource` objects.
- **tags** – (optional) Tags to add to imported resources as string list.

2.18 Exports

2.18.1 ExportsService

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'*)

2.19 History

2.19.1 HistoryService

class `cdrouter.history.HistoryService` (*service*)

Service for accessing CDRouter History.

iter_list (**args, **kwargs*)

Get a list of history entries. Whereas `list` fetches a single page of history entries according to its `limit` and `page` arguments, `iter_list` returns all history entries by internally making successive calls to `list`.

Parameters

- **args** – Arguments that `list` takes.
- **kwargs** – Optional arguments that `list` takes.

Returns `history.History` list

list (*filter=None, type=None, sort=None, limit=None, page=None, detailed=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.
- **detailed** – (optional) Return all fields if Bool *True*.

Returns `history.Page` object

2.19.2 History

class `cdrouter.history.History` (***kwargs*)

Model for CDRouter History entries.

Parameters

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

2.19.3 Page

class `cdrouter.history.Page`

Named tuple for a page of list response data.

Parameters

- **data** – `history.History` list
- **links** – `cdrouter.Links` object

2.20 System

2.20.1 SystemService

class `cdrouter.system.SystemService` (*service*)

Service for accessing CDRouter System.

check_for_lounge_upgrade (*email*)

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

Parameters **email** – CDRouter Support Lounge email 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, nonce, filename='cdrouter.bin')

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

Parameters

- **email** – CDRouter Support Lounge email as a string.
- **nonce** – Upgrade nonce from `system.Release`.
- **filename** – Upgrade filename from `system.Release`.

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.

space ()

Get system disk space usage.

Returns `system.Space` object

Return type `system.Space`

time ()

Get system time.

Return type `string`

2.20.2 Version

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.

2.20.3 ReleaseLatest

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.

2.20.4 Testsuite

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.

2.20.5 Release

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
- **testsuite** – (optional) `system.Testsuite` object
- **nonce** – (optional) Upgrade nonce as string.

2.20.6 Upgrade

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.

2.20.7 InterfaceFlags

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.

2.20.8 InterfaceAddr

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.

2.20.9 Interface

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

Parameters

- **index** – (optional) Interface index as an int.
- **mtu** – (optional) Interface MTU as an int.
- **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

2.20.10 Preferences

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.

2.20.11 Space

class `cdrouter.system.Space` (***kwargs*)
Model for CDRouter Disk Space Usage.

Parameters

- **avail** – (optional) Available disk space as an int.
- **path** – (optional) Path to CDRouter’s data directory as a string.
- **pcent** – (optional) Percentage of disk space used as an int.
- **size** – (optional) Total disk space as an int.
- **unit** – (optional) Disk space units as a string, default is ‘bytes’.
- **used** – (optional) Used disk space as an int.

2.21 Tags

2.21.1 TagsService

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

2.21.2 Tag

class `cdrouter.tags.Tag` (***kwargs*)

Model for CDRouter Tags.

Parameters

- **resource** – (optional) Resource type as string.
- **id** – (optional) Resource ID as an int.
- **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

2.21.3 ResourceTags

class `cdrouter.tags.ResourceTags` (***kwargs*)

Model for CDRouter Resource Tags.

Parameters

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

2.22 Testsuites

2.22.1 TestsuitesService

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, detailed=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.
- **detailed** – (optional) Return all fields if Bool *True*.

Returns `testsuites.Error` list

list_groups (*filter=None, type=None, sort=None, detailed=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.
- **detailed** – (optional) Return all fields if Bool *True*.

Returns `testsuites.Group` list

list_labels (*filter=None, type=None, sort=None, detailed=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.
- **detailed** – (optional) Return all fields if Bool *True*.

Returns `testsuites.Label` list

list_modules (*filter=None, type=None, sort=None, detailed=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.
- **detailed** – (optional) Return all fields if Bool *True*.

Returns `testsuites.Module` list

list_tests (*filter=None, type=None, sort=None, detailed=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.
- **detailed** – (optional) Return all fields if Bool *True*.

Returns `testsuites.Test` list

list_testvars (*filter=None, type=None, sort=None, detailed=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.
- **detailed** – (optional) Return all fields if Bool *True*.

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`

update ()

Update testsuite info.

2.22.2 Info

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.

2.22.3 Group

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.

2.22.4 Module

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.

2.22.5 Test

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.

2.22.6 Label

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.

2.22.7 Error

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.

2.22.8 Testvar

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.

2.22.9 Search

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

2.23 Users

2.23.1 UsersService

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

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

Parameters *ids* – Int 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) Int 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) Int 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 an int.
- **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 an int.

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 an int.

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 an int.

Returns `users.User` object

Return type `users.User`

get_by_name (*name*)

Get a user by name.

Parameters **name** – User name as string.

Returns `users.User` object

Return type `users.User`

iter_list (**args, **kwargs*)

Get a list of users. Whereas `list` fetches a single page of users according to its `limit` and `page` arguments, `iter_list` returns all users by internally making successive calls to `list`.

Parameters

- **args** – Arguments that `list` takes.
- **kwargs** – Optional arguments that `list` takes.

Returns `users.User` list

list (*filter=None, type=None, sort=None, limit=None, page=None, detailed=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.
- **detailed** – (optional) Return all fields if Bool `True`.

Returns `users.Page` object

2.23.2 User

class `cdrouter.users.User` (***kwargs*)

Model for CDRouter Users.

Parameters

- **id** – (optional) User ID as an int.
- **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.

2.23.3 Page

class `cdrouter.users.Page`

Named tuple for a page of list response data.

Parameters

- **data** – `users.User` list
- **links** – `cdrouter.Links` object

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