## OVERVIEW

The ColdTrace DataPortal provides an API that allows a client to retrieve the current state of their deployed fridges and their corresponding alarm, health, and data status.

The API follows [RESTful principles](http://en.wikipedia.org/wiki/Representational_state_transfer) while trying to allow for flexible queries and an easy to use structure. More details on each of the available resources and how to access them is explained below.

The Primary API Endpoint is:

[http://coldtrace.org/coldtrace/api/v1/](http://coldtrace.org/coldtrace/api/v1/deployments/)

At a later point, we will be updating the URL to point to directly to [coldtrace.org](https://uar.coldtrace.org/coldtrace/api/v1/deployments/).

## AUTHENTICATION

The ColdTrace API uses [HTTP Basic Authentication](http://en.wikipedia.org/wiki/Basic_access_authentication) to authenticate users, and it is required for accessing all resource endpoints. It relies on an existing ColdTrace account username and password, and an admin must enable it for API Access. Additionally, the system will also support token authentication and/or cookie based authentication methods for ease of use with clients.

Please also note that all access is restricted to **HTTPS**, to ensure that all request and authentication details are fully encrypted.

*Example Request:*

curl -u username:password [http://coldtrace.org/coldtrace/api/v1/](http://coldtrace.org/coldtrace/api/v1/deployments/)

## DOCUMENT FORMATS

All responses are served in JSON. The format is controlled via an optional GET parameter called **format** which is detailed below.

**format**: optional: json

**Example Request:** curl -u username:password [https://coldtrace.org/coldtrace/api/v1/?format=json](https://coldtrace.org/coldtrace/api/v1/deployments/)&delivery\_zone={delivery zone}

## RESOURCES

**Endpoint:** [http://coldtrace.org/coldtrace/api/v1/fridges/](http://coldtrace.org/coldtrace/api/v1/deployments/)

**Description:** Provides a full list of all Fridges and their statuses related to the authenticated client.

**Methods:** GET

**Example Request:**

GET [http://coldtrace.org/coldtrace/api/v1/fridges/?format=json](http://coldtrace.org/coldtrace/api/v1/deployments/)

**Parameters:**

Parameters are provided as GET parameters on the URL. Delivery Zone is a required parameter. All other parameters are optional. 404 error Not Found will be returned if there are no results to be returned with the given parameters.

**Default:** Returns data for past 7 days of fridge data uploads.

**Option #1:** Specify a date range. Dates default to last 7 days. Inclusive of start / end dates. Corresponds to UTC Time.

start\_date: 2015-07-09 (YYYY-MM-DD)

end\_date: 2015-07-16 (YYYY-MM-DD)

**Option #2:** Specify a month and year. All data returned for that month.

month: 5 (1-12 corresponding to month of the year - 5 = May)

year: 2015 (YYYY)

**Example Request with Parameters:**

GET

[https://coldtrace.org/coldtrace/api/v1/fridges/?start\_date=](https://coldtrace.org/coldtrace/api/v1/deployments/)2015-07-09&end[\_date=](https://coldtrace.org/coldtrace/api/v1/deployments/)2015-07-17

**Example Response:**

{

"params":{

"start\_date":"2015-07-09",

"end\_date":"2015-07-16",

"alarm\_settings":{

"low\_threshold": 0.5,

"low\_delay": 60,

"high\_threshold": 10,

"high\_delay": 480,

"no\_data\_delay": 480

},

"created":"2015-07-17 13:25:42 UTC"

},

"fridges": [

{

"FridgeID": 123,

"FridgeName": "Fridge #1",

"Status": 2,

"HighAlarmCount":3,

"LowAlarmCount":3,

"MinutesInRange":6000,

"MinutesLow":200,

"MinutesHigh":800,

"MinutesNoData":3080,

"URL":"http://coldtrace.org/coldtrace/tbd/tbd/"

},

{

"FridgeID": 124,

"FridgeName": "Fridge #2",

"Status": 2,

"HighAlarmCount":3,

"LowAlarmCount":3,

"MinutesInRange":6000,

"MinutesLow":200,

"MinutesHigh":800,

"MinutesNoData":3080,

"URL":"http://coldtrace.org/coldtrace/tbd/tbd/"

}

]

}