# Drumtochty Heating API

## Resources

The entities exposed by the API are:

* override
* program
* status
* control

## Override Resource

A collection of overrides. Initially there at most one override. The value supplied for id will be ignored and taken to reference the (only) item in the collection. Retain the possibility of multiple override in future. Overrides are immutable.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **VERBS** | **Path** | **Request Data** | **Response** | **Notes** |
| GET | override |  | 200 |  |
| GET | override/:id |  | 501 | (1) |
| POST | override |  | 501 | (2) |
| PUT | override | duration | 200 | (3) |
| DELETE | override |  | 200 |  |
| DELETE | override/:id |  | 501 | (1) |

Notes:

1. currently id is ignored
2. POST is refused as overrides are immutable.
3. Will currently replace any existing override

## Program Resource

The program resource is a collection of heating programs.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **VERBS** | **Path** | **Request Data** | **Response Data** | **Response** | **Notes** |
| GET | program |  | json | 200 |  |
| GET | program /:id |  | json | 200, 404 |  |
| POST | program /:id | json |  | 200, 404 |  |
| PUT | program | json | json | 200 | (1) |
| DELETE | program /:id |  |  | 200 | (2) |

Notes:

1. Response data contains the id allocated to the new program
2. Attempting to delete a non-existent program is not an error

## Program Config Resource

The control resource is the program manager configuration. The control resource is a singleton and there is no plan to change this. Program Config is immutable.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **VERBS** | **Path** | **Request Data** | **Response** | **Notes** |
| GET | program-config |  | 200 | (1) |
| GET | program-config /:id |  | 501 | (2) |
| POST | program-config /:id |  | 501 | (3) |
| PUT | program-config |  | 200 |  |
| DELETE | program-config /:id |  | 200 |  |

Notes:

1. Returns an array containing the only control resource object
2. Replaces any existing program config

## Status Resource

### Api

The status resource is a read-only api.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **VERBS** | **Path** | **Request Data** | **Response Data** | **Response** | **Notes** |
| GET | status/ |  | json | 200 | (1) |
| GET | status /:id |  | json | 200 | (2) |
| POST | status /:id |  |  | 501 |  |
| PUT | status / |  |  | 501 |  |
| DELETE | status /:id |  |  | 501 |  |

Notes:

1. Returns and array containing all status elements described in note (2)
2. Id is one of “control”, “environment”, “env” and “controller”

### Status Response Data

{

items: [

{

id: "control",

snapshot: {

heating: "true",

hotWater: "true"

}

},

{

id: "device",

snapshot: {

boiler: true,

chPump: true,

hwPump: false

}

},

{

id: "env",

snapshot: {

sensors: [

{

id: "hw",

reading: 12.34

}

]

}

},

{

id: "controller",

snapshot: {

overrides: [

{

start: 23,

duration: 12

}

],

activeProgram: {

id: "ab-456cde-003-463",

name: "winter weekends",

...

}

}

}

]

}