**API Specification Doc**

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| **Version** | **Date** | **Author** | **Description** |
| 2.2 | 24-Feb-2017 | Matthew Gordon | Initial draft |

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## 

## 

Methods

## 1. Process residence information

Save residence, routers, heatmap, and heatmap points in the database.

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | /process\_residence\_information/<save\_heatmap\_example.json> |

|  |  |  |  |
| --- | --- | --- | --- |
| **Type** | **Params** | **Values** | **Example** |
| URL\_PARAM | save\_heatmap\_example.json | json | {  **"address"**: **"2222 some street, Santa Barbara CA 93101"**,  **"routers"**: [  {  **"mac\_address"**: **"0000:0000:0000:0000"**,  **"serial\_number"**: **"12345568"**,  **"router\_model"**: **"d4rf"**,  **"name"**: **"name"**,  **"latitude"**: 10.2,  **"longitude"**: 3.6  }  ],  **"heatmap"**: {  **"channel"**: 8,  **"radio"**: 5,  **"zoom":** 18.0**,**  **"heatmap\_points"**: [  {  **"latitude"**: **"34.409476"**,  **"longitude"**: **"-119.864542"**,  **"client\_info"**: **"20:C9:D0:BE:DE:EB"**,  **"upstream\_bps"**: 167903000,  **"jitter"**: 572726,  **"downstream\_bps"**: 167223000,  **"client\_rssi"**: -30,  **"router\_rssi"**: -30,  **"num\_active\_clients"**: 1,  **"client\_tx\_speed"**: 121500,  **"client\_rx\_speed"**: 450000,  **"client\_tx\_retries"**: 5402,  **"client\_rx\_retries"**: 3803,  **"retransmits"**: 40,  **"lost\_percent"**: 10.0  }  ]  }  } |
|  |  |  |  |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | OK |

## 2. Search heatmaps by residence name or account number

Get information on a heatmap given residence name

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | heatmaps/search/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| string | address | Can be null |
| string | account\_number | Can be null |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Response will be a json object containing the information of the heatmap**  [  {  "id":1,  "channel":"1",  "radio":"2",  "zoom":18.0,  "created\_at":"2017-02-10T00:28:49.592Z",  "updated\_at":"2017-02-10T00:28:49.592Z",  "residence\_id":1  }  ] |
|  |  |

## 3. Search heatmaps and points by id

Get information on a heatmaps and heatmap points given residence name

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | /heatmaps/heatmap\_and\_points |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| number | id |  |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **A json output containing containing heatmaps and heatmap points**  Example response:-  {  "heatmap":{  "id":1,  "channel":"1",  "radio":"2",  "zoom":18.0  "created\_at":"2017-02-10T00:28:49.592Z",  "updated\_at":"2017-02-10T00:28:49.592Z",  "residence\_id":1  },  "heatmap\_points":[  {  "id":1,  "latitude":"34.409342",  "longitude":"-119.864567",  "client\_info":"20:C9:D0:BE:DE:EB",  "upstream\_bps":42416746.454099,  "jitter":572726.0,  "downstream\_bps":42416746.454099,  "client\_rssi":-67.0,  "router\_rssi":-67.0,  "num\_active\_clients":1,  "client\_tx\_speed":27000.0,  "client\_rx\_speed":27000.0,  "client\_tx\_retries":4582,  "client\_rx\_retries":2769,  "created\_at":"2017-02-10T00:28:49.768Z",  "updated\_at":"2017-02-10T00:28:49.768Z",  "heatmap\_id":1,  "retransmits":null,  "lost\_percent":null  } ]  } |
|  |  |