Public Facing API Contract

API Domain

All endpoints are hosted at this domain:

```
https://qvthkmtukh.execute-api.us-west-2.amazonaws.com/master
```

To access one of the API endpoints below, append the API endpoint to the above domain url.

API Authorization Header

All access to endpoints require authorization with the api token.

Example Header

```
{
        x-api-key: 'API Key Here'
}
```

Unauthorized or invalid API calls will yield a **403** http status call with the following body

```
{
        "message" : "Forbidden"
}
```

Attributes

POST /api/v1/attributes

This endpoint creates a new attribute.

Request Parameters

attributes - Array of attribute objects.

attribute object

- **name** - (String) Attribute name
- **type** - (String) Type of attribute value - string, float, etc
- **value** - (String or Number) Attribute value
- **file_id** - (String) File id to attach new attributes

Example Request Body

```
{
  "attributes" : [
    {
      "name": "attr_1",
      "type" : "type_2",
      "value" : 1.1,
      "file_id": "0d482456-c0696-48ae-78ac-7d45646f4223"
    }
  ]
}
```

Response Success

A successful response on this endpoint is triggered when the backend successfully processes request.

Parameters

attributes - Array of attribute objects that were created.

attribute object

- **id** - Attribute id
- **name** - Attribute name
- **type** - Attribute type
- **value** - Attribute value
- **file_id** - File id to attach new attributes

Example Response Body

```
{
  "attributes" : [
    {
      "id" : "1"
      "name": "attr_1",
      "type" : "type_2",
      "value" : 1.1,
      "file_id": "0d482456-c0696-48ae-78ac-7d45646f4223"
    }
  ]
}
```

Response Error

An error is triggered when the endpoint is unable to process the request.

Parameters

Will return a list of errors for the attribute items that could not be processed.

error - Contains an error code key.

- `attr_validation_error` - Call was unable to create due to a missing data value.
- `attr_create_error` - Call was unable to create attribute due to specified error in detail.
- `file_not_found` - Call was unable to create attribute due to unable to locate file id specified. This can also happen if the specified file does not belong to the api user.

details - Contains a brief message explaining the error.

data - Copy of what data package was fed on create

Devices

GET /api/v1/devices/{id}

This endpoint gets associated device object using the id.

Request Parameters

id - Device association id

Response Success

A successful response on this endpoint is triggered when the backend successfully processes request.

Parameters

- **id -** Device association id
- **name -** Device name
- **description -** Device description
- **serial_number_id -** Device serial number
- **part_number -** Device part number
- **hardware_revision -** Device hardware revision
- **firmware_revision -** Device firmware version
- **last_calibration_ts -** Last calibration timestamp

- **thing_name -** Device thing name
- **manufacture_date -** Device manufacture date
- **last_uploaded_ts -** Device last upload date
- **status**
  - PAIRED
  - PENDING
  - UNPAIRED

Example Response Body

```
{
    "id" : "1"
    "name": "Mide Test Device",
    "description" : "This is a Mide test device",
    "serial_number_id" : "10118",
    "part_number" : "W8-E100D40",
    "file_id": "0d482456-c0696-48ae-78ac-7d45646f4223",
    "hardware_revision" : "2",
    "firmware_revision" : "35"
    "last_calibration_ts" : 1583440388,
    "thing_name" : "mide-test-device",
    "manufacture_date" : "2019-09-11",
    "last_uploaded_ts" : 1584657025,
    "status" : "PAIRED"
}
```

Response Error

An error is triggered when the endpoint is unable to process the request.

Parameters

code - Contains an error code key.

message - Contains a brief message explaining the error.

GET /api/v1/devices

This endpoint gets the associated device list.

Query Parameters

serial_number - Will filter by serial number if provided. Note that the standard serial number is provided as a string containing only numbers and no leading 0s.

limit - Total number of entries to return per call (default is 10)

next_token - Token to use to get next set of data. Used with pagination.

Example Request

```
/api/v1/devices?
limit=10&next_token=ey035jklj5k3l4j5lkj3k5lj3nr33j4nrn...
```

Response Success

A successful response on this endpoint is triggered when the backend successfully processes request and should return a list of devices if available. Paginate by using the nextToken value if provided to get the next set of results.

Parameters

- **data -** A list of device objects returned from the call
    - **id -** Device association id
    - **name -** Device name
    - **description -** Device description
    - **serial_number_id -** Device serial number
    - **part_number -** Device part number
    - **hardware_revision -** Device hardware revision
    - **firmware_revision -** Device firmware version
    - **last_calibration_ts -** Last calibration timestamp
    - **thing_name -** Device thing name
    - **manufacture_date -** Device manufacture date
    - **last_uploaded_ts -** Device last upload date
    - **status**
        - PAIRED
        - PENDING
        - UNPAIRED
- **nextToken** - Used with pagination. If defined, use again with endpoint to get next set of results. If no other results are available then `nextToken` will return `null` value.

Example Response Body

```
{
  "data" : [
    "id" : "1"
    "name": "Mide Test Device",
    "description" : "This is a Mide test device",
    "serial_number_id" : "10118",
    "part_number" : "W8-E100D40",
    "file_id": "0d482456-c0696-48ae-78ac-7d45646f4223",
    "hardware_revision" : "2",
    "firmware_revision" : "35"
    "last_calibration_ts" : 1583440388,
    "thing_name" : "mide-test-device",
    "manufacture_date" : "2019-09-11",
    "last_uploaded_ts" : 1584657025,
    "status" : "PAIRED"
  ],
  nextToken: "ey035jklj5k3l4j5lkj3k5lj3nr33j4nrn..."
}
```

Response Error

An error is triggered when the endpoint is unable to process the request.

Parameters

code - Contains an error code key.

message - Contains a brief message explaining the error.

Files

GET /api/v1/files/{id}

This endpoint gets a File object using the provided id.

Request Parameters

id - File id

Query Parameters

attributes - Specifies list of attributes to return separated by comma (attr1,attr2,…). The following flags can also be used:

- **all** - Will return all attributes attached to file. (default)
- **none** - Will return no attributes

Example Request Body

```
/api/v1/files/1?attributes=all
or
/api/v1/files/1?attributes=attr1,attr2,...
```

Response Success

A successful response on this endpoint is triggered when the backend successfully processes request and will return a file object with details.

Parameters

File object

- **id -** File id
- **file_name -** File name
- **file_size -** File size
- **tags -** Tags attached to this file
- **attributes -** Attributes attached to this file. Only populated with values specified in call.
- **attributes_names** - List of attribute names
- **device_meta -** Device meta if provided
- **recording_length -** Recording length
- **recording_ts -** Recording time stamp
- **created_ts -** Timestamp of when file was created
- **modified_ts -** Timestamp of last time file was modified
- **archived_ts -** Archived timestamp
- **file_uploaded -** Flag indicating if attached file has been uploaded
- **device -** Source device where file recording was created

Example Response Body

```
{
    "id" : "1"
    "file_name": "row1.csv",
    "file_size" : 777777,
    "tags" : ["tag1", "tag2", ...],
    "attributes" : [{ attribute object... }],
    "attribute_names" : ["attr1", "attr2", ...],
    "device_meta": [],
    "recording_length" : 1063,
    "recording_ts" : 1555398000,
    "created_ts" : 1576862732,
    "modified_ts" : 1576862429,
    "file_uploaded" : true,
    "device" : { device object... }
}
```

Response Error

An error is triggered when the endpoint is unable to process the request.

Parameters

code - Contains an error code key.

message - Contains a brief message explaining the error.

GET /api/v1/files

This endpoint gets the File list sorted by the latest uploaded files.

Query Parameters

serial_number - Will filter by serial number if provided. Note that the standard serial number is provided as a string containing only numbers and no leading 0s.

limit - Total number of entries to return per call. Limit cannot exceed 100 files. (default is 10)

next_token - Token to use to get next set of data. Used with pagination.

attributes - Specifies list of attributes to return separated by comma (attr1,attr2,…). The following flags can also be used:

- **all** - Will return all attributes attached to file.
- **none** - Will return no attributes. (default)

Example Request Body

```
/api/v1/files?
limit=10&next_token=ey035jklj5k3l4j5lkj3k5lj3nr33j4nrn...
```

Response Success

A successful response on this endpoint is triggered when the backend successfully processes request and will return a list of files sorted by the latest uploaded. Paginate by using the nextToken value if provided to get the next set of results.

Parameters

- **data** - List of file objects
    - **id -** File id
    - **file_name -** File name
    - **file_size -** File size
    - **tags -** Tags attached to this file
    - **attributes -** Attributes attached to this file. Only populated with values specified in call.
    - **attributes_names** - List of attribute names
    - **device_meta -** Device meta if provided
    - **recording_length -** Recording length
    - **recording_ts -** Recording time stamp
    - **created_ts -** Timestamp of when file was created
    - **modified_ts -** Timestamp of last time file was modified
    - **archived_ts -** Archived timestamp
    - **file_uploaded -** Flag indicating if attached file has been uploaded
    - **device -** Source device where file recording was created
- **nextToken** - Used with pagination. If defined, use again with endpoint to get next set of results. If no other results are available then `nex tToken` will return `null` value.

Example Response Body

```
{
  "data" : [
    {
      "id" : "1"
      "file_name": "row1.csv",
      "file_size" : 777777,
      "tags" : ["tag1", "tag2", ...],
      "attributes" : [{ attribute object... }],
      "attribute_names" : ["attr1", "attr2", ...],
      "device_meta": [],
      "recording_length" : 1063,
      "recording_ts" : 1555398000,
      "created_ts" : 1576862732,
      "modified_ts" : 1576862429,
      "file_uploaded" : true,
      "device" : { device object... }
    },
    ...
  ],
  nextToken: "ey035jklj5k3l4j5lkj3k5lj3nr33j4nrn..."
}
```

Response Error

An error is triggered when the endpoint is unable to process the request.

Parameters

code - Contains an error code key.

message - Contains a brief message explaining the error.

Profile

GET /api/v1/account/info

This endpoint returns cognito info.

Response Success

A successful response on this endpoint is triggered when the backend successfully processes request.

Parameters

id - Account Cognito id

email - Account email address

Example Response Body

```
{
  "id" : "ce07g72b-255f-4833-7805-fa8886585c86",
  "email" : "example@mide.com",
}
```

Response Error

An error is triggered when the endpoint is unable to process the request.

Parameters

message - Contains a brief message explaining the error.