



## 1 Overview

The CUWB Manager API is a REST API that is automatically ran as a systemd unit following the installation of the cuwb-network package. This API configures all of the resource units required to facilitate the creation, configuration, and deletion of CUWB Networks within the CUWB RTLS platform. This is the vessel through which the CUWB Manager's web-based frontend requests adjustments through HTTP to the CUWB Network's .cuwb saved state files. Users have the option of creating their own control mechanisms utilizing this API by issuing the following requests over any of the host machine's network interfaces on port 5000. The expected response formats are also provided for success, failure, and error scenarios.

### 1.1 Version information

Version : 1.1

### 1.2 JSON Format

This information can also be queried through the API itself via `GET /api.json`

### 1.3 Resources

- CDP Streams
- CUWB Networks
- Calculate Maximum Tags
- Default Settings
- Device Commands
- Device Configurations
- Device Settings
- Devices
- Interface Roles
- Interfaces
- Log Messages
- Magnetometer Calibration
- Packages
- Position Limits
- RF Settings
- Roles
- Settings

### 1.4 Produces

- `application/json`
- `text/html`

## 2 Resources

### 2.1 CDP Streams

#### 2.1.1 The GET method for a list of all CDP streams.

```
GET /cuwbnets/{cuwb_name}/cdp-streams
```



**2.1.1.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string

**2.1.1.2 Responses**

HTTP Code	Description	Schema
200	CDP Stream List	Response 200

**Response 200**

Name	Schema
<b>cdp-streams</b> <i>optional</i>	< object > array

**2.1.2 The GET method for a single CDP stream.**

```
GET /cuwbnets/{cuwb_name}/cdp-streams/{id}
```

**2.1.2.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>id</b> <i>required</i>	The id of the CDP stream to use.	integer

**2.1.2.2 Responses**

HTTP Code	Description	Schema
200	CDP Stream	Response 200
404	Not found.	Response 404

**Response 200**

Name	Schema
<b>cdp-stream</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.1.3 The PATCH method for a single CDP stream.**

PATCH /cuwbnets/{cuwb\_name}/cdp-streams/{id}

### 2.1.3.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>id</b> <i>required</i>	The id of the CDP stream to use.	integer
Body	<b>cdp_stream_body</b> <i>required</i>	The request body	<b>cdp_stream_body</b>

#### cdp\_stream\_body

Name	Schema
<b>destination_ip</b> <i>optional</i>	string
<b>destination_port</b> <i>optional</i>	integer
<b>interface</b> <i>optional</i>	string
<b>interface_port</b> <i>optional</i>	integer
<b>time_to_live</b> <i>optional</i>	integer

### 2.1.3.2 Responses

HTTP Code	Description	Schema
<b>200</b>	CDP Stream	<b>Response 200</b>
<b>400</b>	Invalid request.	<b>Response 400</b>
<b>404</b>	Not found.	<b>Response 404</b>
<b>409</b>	Conflict.	<b>Response 409</b>
<b>500</b>	Internal error.	<b>Response 500</b>

#### Response 200

Name	Schema
<b>cdp-stream</b> <i>optional</i>	string

#### Response 400

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 409**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 500**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.2 CUWB Networks****2.2.1 Create a new CUWB Network object.**

POST /cuwbnetns

**2.2.1.1 Parameters**

Type	Name	Description	Schema
<b>Body</b>	<b>cuwb_network_body</b> <i>required</i>	The request body	<b>cuwb_network_body</b>

**cuwb\_network\_body**

Name	Schema
<b>instance</b> <i>optional</i>	string
<b>name</b> <i>optional</i>	string

**2.2.1.2 Responses**

HTTP Code	Description	Schema
<b>201</b>	CUWB Network	<b>Response 201</b>
<b>400</b>	Invalid request.	<b>Response 400</b>
<b>409</b>	Conflict.	<b>Response 409</b>

**Response 201**

Name	Schema
<b>cuwbnets</b> <i>optional</i>	string

**Response 400**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 409**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.2.2 Get a list of ALL CUWB Networks on the system.**

GET /cuwbnets

**2.2.2.1 Responses**

HTTP Code	Description	Schema
<b>200</b>	CUWB Network List	<a href="#">Response 200</a>

**Response 200**

Name	Schema
<b>cuwbnets</b> <i>optional</i>	< object > array

**2.2.3 Upload a CUWB network.**

POST /cuwbnets/upload

**2.2.3.1 Parameters**

Type	Name	Description	Schema
<b>FormData</b>	<b>cuwb_file</b> <i>optional</i>	A CUWB network file to upload	file

**2.2.3.2 Responses**

HTTP Code	Description	Schema
<b>201</b>	CUWB Network	<a href="#">Response 201</a>
<b>400</b>	Invalid request.	<a href="#">Response 400</a>
<b>409</b>	CUWB network already exists.	<a href="#">Response 409</a>

**Response 201**

Name	Schema
<b>cuwbnets</b> <i>optional</i>	string

**Response 400**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 409**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.2.3.3 Consumes**

- `multipart/form-data`

**2.2.4 POST an action to a CUWB Network.**

POST /cuwbnets/{cuwb\_name}

**2.2.4.1 Parameters**

Type	Name	Description	Schema
<b>Path</b>	<b>cuwb_name</b> <i>required</i>	The name of a CUWB network	string
<b>Body</b>	<b>action_body</b> <i>required</i>	The request body	<code>action_body</code>

**action\_body**

Name	Schema
<b>action</b> <i>optional</i>	string
<b>name</b> <i>optional</i>	string

**2.2.4.2 Responses**

HTTP Code	Description	Schema
<b>200</b>	Action succeeded.	<code>Response 200</code>
<b>400</b>	Invalid request.	<code>Response 400</code>
<b>404</b>	Not found.	<code>Response 404</code>

**Response 200**

Name	Schema
<b>status</b> <i>optional</i>	string

**Response 400**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.2.5 Get details about ONE CUWB Network.**

```
GET /cuwbnets/{cuwb_name}
```

**2.2.5.1 Parameters**

Type	Name	Description	Schema
<b>Path</b>	<b>cuwb_name</b> <i>required</i>	The name of a CUWB network	string

**2.2.5.2 Responses**

HTTP Code	Description	Schema
<b>200</b>	CUWB Network	<a href="#">Response 200</a>
<b>404</b>	Not found.	<a href="#">Response 404</a>

**Response 200**

Name	Schema
<b>cuwbnets</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.2.6 Delete ONE CUWB Network record.**

```
DELETE /cuwbnets/{cuwb_name}
```

**2.2.6.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of a CUWB network	string

### 2.2.6.2 Responses

HTTP Code	Description	Schema
204	Item deleted.	Response 204

#### Response 204

Name	Schema
<b>message</b> <i>optional</i>	string

### 2.2.7 Update ONE CUWB Network record.

```
PATCH /cuwbnets/{cuwb_name}
```

#### 2.2.7.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of a CUWB network	string
Body	<b>cuwb_network_body</b> <i>required</i>	The request body	cuwb_network_body

#### cuwb\_network\_body

Name	Schema
<b>instance</b> <i>optional</i>	string
<b>name</b> <i>optional</i>	string

#### 2.2.7.2 Responses

HTTP Code	Description	Schema
200	CUWB Network	Response 200
400	Invalid request.	Response 400
404	Not found.	Response 404

#### Response 200

Name	Schema
<b>cuwbnets</b> <i>optional</i>	string

#### Response 400



Name	Schema
<b>message</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.2.8 Download a CUWB network.**

```
GET /cuwbnets/{cuwb_name}/download
```

**2.2.8.1 Parameters**

Type	Name	Description	Schema
<b>Path</b>	<b>cuwb_name</b> <i>required</i>	The name of a CUWB network	string

**2.2.8.2 Responses**

HTTP Code	Description	Schema
<b>200</b>	CUWB Network File	<a href="#">Response 200</a>
<b>404</b>	Not found.	<a href="#">Response 404</a>

**Response 200**

Name	Schema
<b>file</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.3 Calculate Maximum Tags****2.3.1 Run a maximum tags calculation with parameters.**

```
POST /calculate_maximum_tags
```

**2.3.1.1 Parameters**

Type	Name	Description	Schema
<b>Body</b>	<b>calculate_maximum_tags_parameterized_body</b> <i>required</i>	The request body	<a href="#">calculate_maximum_tags_parameterized_body</a>

**calculate\_maximum\_tags\_parameterized\_body**

Name	Schema
<b>device_configuration</b> <i>optional</i>	string
<b>maximum_tag_period</b> <i>optional</i>	integer
<b>number_of_seeders</b> <i>optional</i>	integer
<b>seeder_period</b> <i>optional</i>	integer
<b>tag_period</b> <i>optional</i>	integer

**2.3.1.2 Responses**

HTTP Code	Description	Schema
<b>200</b>	Calculate maximum tags	<a href="#">Response 200</a>
<b>400</b>	Invalid request.	<a href="#">Response 400</a>
<b>404</b>	Not found.	<a href="#">Response 404</a>
<b>409</b>	Conflict.	<a href="#">Response 409</a>
<b>500</b>	Internal error.	<a href="#">Response 500</a>

**Response 200**

Name	Schema
<b>maximum_tags_calculation</b> <i>optional</i>	string

**Response 400**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 409**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 500**

Name	Schema
<b>maximum_tags_calculation</b> <i>optional</i>	string

### 2.3.2 Run a maximum tags calculation.

POST /cuwbnets/{cuwb\_name}/calculate\_maximum\_tags

#### 2.3.2.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Body	<b>calculate_maximum_tags_body</b> <i>required</i>	The request body	<b>calculate_maximum_tags_body</b>

#### calculate\_maximum\_tags\_body

Name	Schema
<b>device_configuration_id</b> <i>optional</i>	integer
<b>role_id</b> <i>optional</i>	integer

#### 2.3.2.2 Responses

HTTP Code	Description	Schema
<b>200</b>	Calculate maximum tags	<b>Response 200</b>
<b>400</b>	Invalid request.	<b>Response 400</b>
<b>404</b>	Not found.	<b>Response 404</b>
<b>409</b>	Conflict.	<b>Response 409</b>
<b>500</b>	Internal error.	<b>Response 500</b>

#### Response 200

Name	Schema
<b>maximum_tags_calculation</b> <i>optional</i>	string

#### Response 400

Name	Schema
<b>message</b> <i>optional</i>	string

#### Response 404

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 409**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 500**

Name	Schema
<b>maximum_tags_calculation</b> <i>optional</i>	string

## 2.4 Default Settings

### 2.4.1 The GET method for a list of all settings.

GET /default-settings

#### 2.4.1.1 Responses

HTTP Code	Description	Schema
<b>200</b>	Setting List	<a href="#">Response 200</a>

**Response 200**

Name	Schema
<b>default_settings</b> <i>optional</i>	string

### 2.4.2 The GET method for a single setting.

GET /default-settings/{key}

#### 2.4.2.1 Parameters

Type	Name	Description	Schema
<b>Path</b>	<b>key</b> <i>required</i>	The key of the setting to use.	string

#### 2.4.2.2 Responses

HTTP Code	Description	Schema
<b>200</b>	Setting	<a href="#">Response 200</a>
<b>404</b>	Not found.	<a href="#">Response 404</a>

**Response 200**

Name	Schema
<b>default_setting</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.5 Device Commands****2.5.1 The POST method for a device command.**

```
POST /cuwbnet/{cuwb_name}/devices/{device_key}/action
```

**2.5.1.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string
Body	<b>device_command_body</b> <i>required</i>	The request body	<b>device_command_body</b>

**device\_command\_body**

Name	Schema
<b>action</b> <i>optional</i>	string
<b>color</b> <i>optional</i>	string
<b>mode</b> <i>optional</i>	string

**2.5.1.2 Responses**

HTTP Code	Description	Schema
<b>200</b>	Device Command	<b>Response 200</b>
<b>400</b>	Invalid request.	<b>Response 400</b>
<b>404</b>	Not found.	<b>Response 404</b>

**Response 200**

Name	Schema
<b>status</b> <i>optional</i>	string

**Response 400**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.6 Device Configurations

### 2.6.1 The POST method for adding a new device configuration.

```
POST /cuwbnets/{cuwb_name}/device_configurations
```

#### 2.6.1.1 Parameters

Type	Name	Description	Schema
<b>Path</b>	<b>cuwb_name</b> <i>required</i>	The name of the cuwbnet to use.	string
<b>Body</b>	<b>device_configuration_body</b> <i>required</i>	The request body	<b>device_configuration_body</b>

**device\_configuration\_body**

Name	Schema
<b>accelerometer_period</b> <i>optional</i>	integer
<b>gyroscope_period</b> <i>optional</i>	integer
<b>led_brightness</b> <i>optional</i>	string
<b>magnetometer_period</b> <i>optional</i>	integer
<b>name</b> <i>optional</i>	string
<b>position_period</b> <i>optional</i>	integer
<b>pressure_period</b> <i>optional</i>	integer
<b>quaternion_period</b> <i>optional</i>	integer
<b>temperature_period</b> <i>optional</i>	integer

### 2.6.1.2 Responses

HTTP Code	Description	Schema
<b>201</b>	Device Configuration	<a href="#">Response 201</a>
<b>400</b>	Invalid request.	<a href="#">Response 400</a>
<b>409</b>	Conflict.	<a href="#">Response 409</a>
<b>500</b>	Internal error.	<a href="#">Response 500</a>

#### Response 201

Name	Schema
<b>device_configuration</b> <i>optional</i>	string

#### Response 400

Name	Schema
<b>message</b> <i>optional</i>	string

#### Response 409

Name	Schema
<b>message</b> <i>optional</i>	string

#### Response 500

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.6.2 The GET method for a list of all device configurations.

```
GET /cuwbnet/{cuwb_name}/device_configurations
```

### 2.6.2.1 Parameters

Type	Name	Description	Schema
<b>Path</b>	<b>cuwb_name</b> <i>required</i>	The name of the cuwbnet to use.	string

### 2.6.2.2 Responses

HTTP Code	Description	Schema
<b>200</b>	Device Configuration List	<b>Response 200</b>

#### Response 200

Name	Schema
<b>device_configurations</b> <i>optional</i>	string

## 2.6.3 The GET method for a single device configuration.

```
GET /cuwbnet/{cuwb_name}/device_configurations/{device_configuration_id}
```

### 2.6.3.1 Parameters

Type	Name	Description	Schema
<b>Path</b>	<b>cuwb_name</b> <i>required</i>	The name of the cuwbnet to use.	string
<b>Path</b>	<b>device_configuration_id</b> <i>required</i>	The ID of the device configuration	integer

### 2.6.3.2 Responses

HTTP Code	Description	Schema
<b>200</b>	Device Configuration	<b>Response 200</b>
<b>404</b>	Not found.	<b>Response 404</b>

#### Response 200

Name	Schema
<b>device_configuration</b> <i>optional</i>	string



**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.6.4 The DELETE method for a single device\_configuration.**

```
DELETE /cuwbnets/{cuwb_name}/device_configurations/{device_configuration_id}
```

**2.6.4.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the cuwbnet to use.	string
Path	<b>device_configuration_id</b> <i>required</i>	The ID of the device configuration	integer

**2.6.4.2 Responses**

HTTP Code	Description	Schema
<b>204</b>	Item deleted.	<a href="#">Response 204</a>
<b>409</b>	Conflict.	<a href="#">Response 409</a>

**Response 204**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 409**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.6.5 The PATCH method for a device configuration.**

```
PATCH /cuwbnets/{cuwb_name}/device_configurations/{device_configuration_id}
```

**2.6.5.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the cuwbnet to use.	string
Path	<b>device_configuration_id</b> <i>required</i>	The ID of the device configuration	integer
Body	<b>device_configuration_body</b> <i>required</i>	The request body	<a href="#">device_configuration_body</a>

**device\_configuration\_body**

Name	Schema
<b>accelerometer_period</b> <i>optional</i>	integer
<b>gyroscope_period</b> <i>optional</i>	integer
<b>led_brightness</b> <i>optional</i>	string
<b>magnetometer_period</b> <i>optional</i>	integer
<b>name</b> <i>optional</i>	string
<b>position_period</b> <i>optional</i>	integer
<b>pressure_period</b> <i>optional</i>	integer
<b>quaternion_period</b> <i>optional</i>	integer
<b>temperature_period</b> <i>optional</i>	integer

**2.6.5.2 Responses**

HTTP Code	Description	Schema
<b>200</b>	Device Configuration	<a href="#">Response 200</a>
<b>400</b>	Invalid request.	<a href="#">Response 400</a>
<b>404</b>	Not found.	<a href="#">Response 404</a>
<b>409</b>	Conflict.	<a href="#">Response 409</a>
<b>500</b>	Internal error.	<a href="#">Response 500</a>

**Response 200**

Name	Schema
<b>device_configuration</b> <i>optional</i>	string

**Response 400**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 409**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 500**

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.7 Device Settings

### 2.7.1 The POST method to create a new device setting.

```
POST /cuwbnets/{cuwb_name}/device-settings
```

#### 2.7.1.1 Parameters

Type	Name	Description	Schema
<b>Path</b>	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
<b>Body</b>	<b>device_settings_post_body</b> <i>required</i>	The request body	<b>device_settings_post_body</b>

#### device\_settings\_post\_body

Name	Schema
<b>device_id</b> <i>optional</i>	integer

#### 2.7.1.2 Responses

HTTP Code	Description	Schema
<b>200</b>	Device Setting	<b>Response 200</b>
<b>400</b>	Invalid request.	<b>Response 400</b>
<b>409</b>	Conflict.	<b>Response 409</b>
<b>500</b>	Internal error.	<b>Response 500</b>

**Response 200**

Name	Schema
<b>device_setting</b> <i>optional</i>	string

**Response 400**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 409**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 500**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.7.2 The GET method for a list of all device settings.**

```
GET /cuwbnets/{cuwb_name}/device-settings
```

**2.7.2.1 Parameters**

Type	Name	Description	Schema
<b>Path</b>	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string

**2.7.2.2 Responses**

HTTP Code	Description	Schema
<b>200</b>	Device Setting List	<b>Response 200</b>

**Response 200**

Name	Schema
<b>device_settings</b> <i>optional</i>	string

**2.7.3 The GET method for a list of all device settings for a Device ID.**

```
GET /cuwbnets/{cuwb_name}/devices/{device_id}/settings
```

**2.7.3.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_id</b> <i>required</i>	The Device ID the setting is used for.	string

### 2.7.3.2 Responses

HTTP Code	Description	Schema
200	Device Settings List	Response 200
404	Not found.	Response 404

#### Response 200

Name	Schema
<b>device_settings</b> <i>optional</i>	string

#### Response 404

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.7.4 The GET method for a single device setting.

```
GET /cuwbnets/{cuwb_name}/devices/{device_id}/settings/{key}
```

### 2.7.4.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_id</b> <i>required</i>	The Device ID the setting is used for.	string
Path	<b>key</b> <i>required</i>	The key of the setting to use.	string

### 2.7.4.2 Responses

HTTP Code	Description	Schema
200	Device Setting	Response 200
404	Not found.	Response 404

#### Response 200

Name	Schema
<b>device_setting</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.7.5 The PUT method for a single device setting.**

```
PUT /cuwbnets/{cuwb_name}/devices/{device_id}/settings/{key}
```

**2.7.5.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_id</b> <i>required</i>	The Device ID the setting is used for.	string
Path	<b>key</b> <i>required</i>	The key of the setting to use.	string
Body	<b>device_settings_put_body</b> <i>required</i>	The request body	object

**2.7.5.2 Responses**

HTTP Code	Description	Schema
<b>200</b>	Device Setting	<b>Response 200</b>
<b>500</b>	Internal error.	<b>Response 500</b>

**Response 200**

Name	Schema
<b>device_setting</b> <i>optional</i>	string

**Response 500**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.7.6 The DELETE method for a device setting.**

```
DELETE /cuwbnets/{cuwb_name}/devices/{device_id}/settings/{key}
```

**2.7.6.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_id</b> <i>required</i>	The Device ID the setting is used for.	string
Path	<b>key</b> <i>required</i>	The key of the setting to use.	string

### 2.7.6.2 Responses

HTTP Code	Description	Schema
204	Item deleted.	<a href="#">Response 204</a>

#### Response 204

Name	Schema
<b>message</b> <i>optional</i>	string

### 2.7.7 The PATCH method for a single device setting.

```
PATCH /cuwbnets/{cuwb_name}/devices/{device_id}/settings/{key}
```

#### 2.7.7.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_id</b> <i>required</i>	The Device ID the setting is used for.	string
Path	<b>key</b> <i>required</i>	The key of the setting to use.	string
Body	<b>device_settings_put_body</b> <i>required</i>	The request body	object

#### 2.7.7.2 Responses

HTTP Code	Description	Schema
200	Device Setting	<a href="#">Response 200</a>
404	Not found.	<a href="#">Response 404</a>
500	Internal error.	<a href="#">Response 500</a>

#### Response 200

Name	Schema
<b>device_setting</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 500**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.8 Devices****2.8.1 The POST method for adding a new device.**

```
POST /cuwbnets/{cuwb_name}/devices
```

**2.8.1.1 Parameters**

Type	Name	Description	Schema
<b>Path</b>	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
<b>Body</b>	<b>device_body</b> <i>required</i>	The request body	<b>device_body</b>

**device\_body**

Name	Schema
<b>disabled</b> <i>optional</i>	boolean
<b>interfaces</b> <i>optional</i>	string
<b>serial_number</b> <i>optional</i>	string

**2.8.1.2 Responses**

HTTP Code	Description	Schema
<b>201</b>	Device	<b>Response 201</b>
<b>400</b>	Invalid request.	<b>Response 400</b>
<b>409</b>	Conflict.	<b>Response 409</b>
<b>500</b>	Internal error.	<b>Response 500</b>

**Response 201**



Name	Schema
<b>device</b> <i>optional</i>	string

**Response 400**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 409**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 500**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.8.2 The GET method for a list of all devices.**

```
GET /cuwbnets/{cuwb_name}/devices
```

**2.8.2.1 Parameters**

Type	Name	Description	Schema
<b>Path</b>	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string

**2.8.2.2 Responses**

HTTP Code	Description	Schema
<b>200</b>	Device List	<b>Response 200</b>

**Response 200**

Name	Schema
<b>devices</b> <i>optional</i>	string

**2.8.3 The GET method for a single device.**

```
GET /cuwbnets/{cuwb_name}/devices/{device_key}
```

**2.8.3.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string

### 2.8.3.2 Responses

HTTP Code	Description	Schema
200	Device	<a href="#">Response 200</a>
404	Not found.	<a href="#">Response 404</a>

#### Response 200

Name	Schema
<b>device</b> <i>optional</i>	string

#### Response 404

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.8.4 The DELETE method for a single device.

```
DELETE /cuwbnets/{cuwb_name}/devices/{device_key}
```

### 2.8.4.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string

### 2.8.4.2 Responses

HTTP Code	Description	Schema
204	Item deleted.	<a href="#">Response 204</a>

#### Response 204

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.8.5 The PATCH method for a single device.

```
PATCH /cuwbnets/{cuwb_name}/devices/{device_key}
```

### 2.8.5.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string
Body	<b>device_body</b> <i>required</i>	The request body	<b>device_body</b>

#### device\_body

Name	Schema
<b>disabled</b> <i>optional</i>	boolean
<b>interfaces</b> <i>optional</i>	string
<b>serial_number</b> <i>optional</i>	string

### 2.8.5.2 Responses

HTTP Code	Description	Schema
<b>200</b>	Device	<b>Response 200</b>
<b>400</b>	Invalid request.	<b>Response 400</b>
<b>404</b>	Not found.	<b>Response 404</b>
<b>500</b>	Internal error.	<b>Response 500</b>

#### Response 200

Name	Schema
<b>device</b> <i>optional</i>	string

#### Response 400

Name	Schema
<b>message</b> <i>optional</i>	string

#### Response 404

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 500**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.9 Interface Roles****2.9.1 The GET method for a list of all roles.**

```
GET /cuwbnets/{cuwb_name}/devices/{device_key}-{interface_identifier}/roles
```

**2.9.1.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string
Path	<b>interface_identifier</b> <i>required</i>	An identifier for interfaces.	integer

**2.9.1.2 Responses**

HTTP Code	Description	Schema
<b>200</b>	Device Roles	<a href="#">Response 200</a>
<b>404</b>	Not found.	<a href="#">Response 404</a>

**Response 200**

Name	Schema
<b>roles</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.9.2 The GET method for a single role.**

```
GET /cuwbnets/{cuwb_name}/devices/{device_key}-{interface_identifier}/roles/{role_id}
```

**2.9.2.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string
Path	<b>interface_identifier</b> <i>required</i>	An identifier for interfaces.	integer
Path	<b>role_id</b> <i>required</i>	An id for roles.	integer

### 2.9.2.2 Responses

HTTP Code	Description	Schema
200	Device Role	Response 200
404	Not found.	Response 404

#### Response 200

Name	Schema
<b>role</b> <i>optional</i>	string

#### Response 404

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.9.3 The DELETE method for a single role.

```
DELETE /cuwbnets/{cuwb_name}/devices/{device_key}-{interface_identifier}/roles/{role_id}
```

### 2.9.3.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string
Path	<b>interface_identifier</b> <i>required</i>	An identifier for interfaces.	integer
Path	<b>role_id</b> <i>required</i>	An id for roles.	integer

### 2.9.3.2 Responses

HTTP Code	Description	Schema
204	Item deleted.	Response 204

**Response 204**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.9.4 The GET method for a list of all roles.**

```
GET /cuwbnets/{cuwb_name}/devices/{device_key}/interfaces/{interface_identifier}/roles
```

**2.9.4.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string
Path	<b>interface_identifier</b> <i>required</i>	An identifier for interfaces.	integer

**2.9.4.2 Responses**

HTTP Code	Description	Schema
<b>200</b>	Device Roles	<a href="#">Response 200</a>
<b>404</b>	Not found.	<a href="#">Response 404</a>

**Response 200**

Name	Schema
<b>roles</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.9.5 The GET method for a single role.**

```
GET /cuwbnets/{cuwb_name}/devices/{device_key}/interfaces/{interface_identifier}/roles/{role_id}
```

**2.9.5.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string
Path	<b>interface_identifier</b> <i>required</i>	An identifier for interfaces.	integer
Path	<b>role_id</b> <i>required</i>	An id for roles.	integer

### 2.9.5.2 Responses

HTTP Code	Description	Schema
200	Device Role	Response 200
404	Not found.	Response 404

#### Response 200

Name	Schema
<b>role</b> <i>optional</i>	string

#### Response 404

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.9.6 The DELETE method for a single role.

```
DELETE /cuwbnets/{cuwb_name}/devices/{device_key}/interfaces/{interface_identifier}/roles/{role_id}
```

### 2.9.6.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string
Path	<b>interface_identifier</b> <i>required</i>	An identifier for interfaces.	integer
Path	<b>role_id</b> <i>required</i>	An id for roles.	integer

### 2.9.6.2 Responses

HTTP Code	Description	Schema
204	Item deleted.	Response 204

**Response 204**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.10 Interfaces****2.10.1 The GET method for a single interface.**

```
GET /cuwbnets/{cuwb_name}/devices/{device_key}-{interface_identifier}
```

**2.10.1.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string
Path	<b>interface_identifier</b> <i>required</i>	An identifier for interfaces.	integer

**2.10.1.2 Responses**

HTTP Code	Description	Schema
<b>200</b>	Device Interface	<a href="#">Response 200</a>
<b>404</b>	Not found.	<a href="#">Response 404</a>

**Response 200**

Name	Schema
<b>interface</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.10.2 The DELETE method for a single interface.**

```
DELETE /cuwbnets/{cuwb_name}/devices/{device_key}-{interface_identifier}
```

**2.10.2.1 Parameters**



Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string
Path	<b>interface_identifier</b> <i>required</i>	An identifier for interfaces.	integer

### 2.10.2.2 Responses

HTTP Code	Description	Schema
204	Item deleted.	<a href="#">Response 204</a>

#### Response 204

Name	Schema
<b>message</b> <i>optional</i>	string

### 2.10.3 The GET method for a list of all interfaces.

```
GET /cuwbnets/{cuwb_name}/devices/{device_key}/interfaces
```

#### 2.10.3.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string

#### 2.10.3.2 Responses

HTTP Code	Description	Schema
200	Device Interface	<a href="#">Response 200</a>
404	Not found.	<a href="#">Response 404</a>

#### Response 200

Name	Schema
<b>interfaces</b> <i>optional</i>	string

#### Response 404

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.10.4 The GET method for a single interface.

```
GET /cuwbnets/{cuwb_name}/devices/{device_key}/interfaces/{interface_identifier}
```

### 2.10.4.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string
Path	<b>interface_identifier</b> <i>required</i>	An identifier for interfaces.	integer

### 2.10.4.2 Responses

HTTP Code	Description	Schema
200	Device Interface	<a href="#">Response 200</a>
404	Not found.	<a href="#">Response 404</a>

#### Response 200

Name	Schema
<b>interface</b> <i>optional</i>	string

#### Response 404

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.10.5 The DELETE method for a single interface.

```
DELETE /cuwbnets/{cuwb_name}/devices/{device_key}/interfaces/{interface_identifier}
```

### 2.10.5.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string
Path	<b>interface_identifier</b> <i>required</i>	An identifier for interfaces.	integer

### 2.10.5.2 Responses

HTTP Code	Description	Schema
204	Item deleted.	Response 204

**Response 204**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.11 Log Messages****2.11.1 The GET method for a list of all log messages.**

```
GET /cuwbnets/{cuwb_name}/log_messages
```

**2.11.1.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string

**2.11.1.2 Responses**

HTTP Code	Description	Schema
200	Log Message List	Response 200

**Response 200**

Name	Schema
<b>log_messages</b> <i>optional</i>	< string > array

**2.12 Magnetometer Calibration****2.12.1 Create a new magnetometer calibration.**

```
POST /cuwbnets/{cuwb_name}/devices/{device_key}/set_magnetometer_calibration
```

**2.12.1.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>device_key</b> <i>required</i>	Either a Ciholas serial number or an integer ID.	string
Body	<b>mangetometer_calibration_body</b> <i>required</i>	The request body	mangetometer_calibration_body

**magnetometer\_calibration\_body**

Name	Schema
<b>x_offset</b> <i>optional</i>	integer
<b>y_offset</b> <i>optional</i>	integer
<b>z_offset</b> <i>optional</i>	integer

**2.12.1.2 Responses**

HTTP Code	Description	Schema
<b>201</b>	Magnetometer Calibration	<a href="#">Response 201</a>
<b>400</b>	Invalid request.	<a href="#">Response 400</a>
<b>404</b>	Not found.	<a href="#">Response 404</a>
<b>409</b>	Conflict.	<a href="#">Response 409</a>
<b>500</b>	Internal error.	<a href="#">Response 500</a>

**Response 201**

Name	Schema
<b>magnetometer_calibration</b> <i>optional</i>	string

**Response 400**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 409**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 500**

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.13 Packages

### 2.13.1 The GET method for PPA packages.

GET /packages

#### 2.13.1.1 Responses

HTTP Code	Description	Schema
200	Packages	Response 200
404	Not found.	Response 404

#### Response 200

Name	Schema
<b>ppa_status</b> <i>optional</i>	string

#### Response 404

Name	Schema
<b>ppa_status</b> <i>optional</i>	string

## 2.14 Position Limits

### 2.14.1 Create a new Position Limit object.

POST /cuwbnets/{cuwb\_name}/position\_limits

#### 2.14.1.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Body	<b>position_limits_post_body</b> <i>required</i>	The POST body - must include all fields.	<b>position_limits_post_body</b>

**position\_limits\_post\_body**

Name	Schema
<b>max_x</b> <i>optional</i>	integer
<b>max_y</b> <i>optional</i>	integer
<b>max_z</b> <i>optional</i>	integer
<b>min_x</b> <i>optional</i>	integer
<b>min_y</b> <i>optional</i>	integer
<b>min_z</b> <i>optional</i>	integer
<b>name</b> <i>optional</i>	string

#### 2.14.1.2 Responses

HTTP Code	Description	Schema
<b>200</b>	Position Limit	Response 200
<b>400</b>	Invalid request.	Response 400
<b>409</b>	Conflict.	Response 409

#### Response 200

Name	Schema
<b>position_limits</b> <i>optional</i>	string

#### Response 400

Name	Schema
<b>message</b> <i>optional</i>	string

#### Response 409

Name	Schema
<b>message</b> <i>optional</i>	string

### 2.14.2 The GET method for a list of all position limits.

```
GET /cuwbnets/{cuwb_name}/position_limits
```

#### 2.14.2.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string

#### 2.14.2.2 Responses

HTTP Code	Description	Schema
200	Position Limits List	Response 200

#### Response 200

Name	Schema
<b>position_limits</b> <i>optional</i>	string

### 2.14.3 The GET method for a single position limit.

```
GET /cuwbnets/{cuwb_name}/position_limits/{name}
```

#### 2.14.3.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>name</b> <i>required</i>	The name of the position limit to use.	string

#### 2.14.3.2 Responses

HTTP Code	Description	Schema
200	Position Limits	Response 200
404	Not found.	Response 404

#### Response 200

Name	Schema
<b>position_limits</b> <i>optional</i>	string

#### Response 404

Name	Schema
<b>message</b> <i>optional</i>	string

### 2.14.4 The DELETE method for a single position limit.

```
DELETE /cuwbnets/{cuwb_name}/position_limits/{name}
```

## 2.14.4.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>name</b> <i>required</i>	The name of the position limit to use.	string

## 2.14.4.2 Responses

HTTP Code	Description	Schema
204	Item deleted.	Response 204

## Response 204

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.14.5 The PATCH method for a single position limit.

```
PATCH /cuwbnets/{cuwb_name}/position_limits/{name}
```

## 2.14.5.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>name</b> <i>required</i>	The name of the position limit to use.	string
Body	<b>position_limits_patch_body</b> <i>required</i>	The PATCH body - must include at least one field.	position_limits_patch_body

## position\_limits\_patch\_body

Name	Schema
<b>max_x</b> <i>optional</i>	integer
<b>max_y</b> <i>optional</i>	integer
<b>max_z</b> <i>optional</i>	integer
<b>min_x</b> <i>optional</i>	integer
<b>min_y</b> <i>optional</i>	integer
<b>min_z</b> <i>optional</i>	integer



### 2.14.5.2 Responses

HTTP Code	Description	Schema
200	Position Limits	Response 200
404	Not found.	Response 404
500	Internal error.	Response 500

#### Response 200

Name	Schema
<b>position_limits</b> <i>optional</i>	string

#### Response 404

Name	Schema
<b>message</b> <i>optional</i>	string

#### Response 500

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.15 RF Settings

### 2.15.1 Create a new RF Settings object.

```
POST /cuwbnets/{cuwb_name}/rf_settings
```

#### 2.15.1.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Body	<b>rf_settings_post_body</b> <i>required</i>	The POST body - must include all fields.	<b>rf_settings_post_body</b>

#### rf\_settings\_post\_body

Name	Schema
<b>bit_rate</b> <i>optional</i>	integer
<b>channel</b> <i>optional</i>	integer
<b>name</b> <i>optional</i>	string
<b>preamble_code</b> <i>optional</i>	integer
<b>preamble_length</b> <i>optional</i>	integer
<b>prf</b> <i>optional</i>	integer

### 2.15.1.2 Responses

HTTP Code	Description	Schema
<b>200</b>	RF Setting	<a href="#">Response 200</a>
<b>400</b>	Invalid request.	<a href="#">Response 400</a>
<b>409</b>	Conflict.	<a href="#">Response 409</a>

#### Response 200

Name	Schema
<b>rf_settings</b> <i>optional</i>	string

#### Response 400

Name	Schema
<b>message</b> <i>optional</i>	string

#### Response 409

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.15.2 The GET method for a list of all RF Settings.

```
GET /cuwbnets/{cuwb_name}/rf_settings
```

### 2.15.2.1 Parameters

Type	Name	Description	Schema
<b>Path</b>	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string

## 2.15.2.2 Responses

HTTP Code	Description	Schema
200	RF Settings List	Response 200

## Response 200

Name	Schema
<b>rf_settings</b> <i>optional</i>	string

## 2.15.3 The GET method for a single RF Settings.

```
GET /cuwbnets/{cuwb_name}/rf_settings/{name}
```

## 2.15.3.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>name</b> <i>required</i>	The name of the RF Settings to use.	string

## 2.15.3.2 Responses

HTTP Code	Description	Schema
200	RF Setting	Response 200
404	Not found.	Response 404

## Response 200

Name	Schema
<b>rf_settings</b> <i>optional</i>	string

## Response 404

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.15.4 The DELETE method for a single RF Settings.

```
DELETE /cuwbnets/{cuwb_name}/rf_settings/{name}
```

## 2.15.4.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>name</b> <i>required</i>	The name of the RF Settings to use.	string

#### 2.15.4.2 Responses

HTTP Code	Description	Schema
204	Item deleted.	Response 204

#### Response 204

Name	Schema
<b>message</b> <i>optional</i>	string

### 2.15.5 The PATCH method for a single RF Settings.

```
PATCH /cuwbnets/{cuwb_name}/rf_settings/{name}
```

#### 2.15.5.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>name</b> <i>required</i>	The name of the RF Settings to use.	string
Body	<b>rf_settings_patch_body</b> <i>required</i>	The PATCH body - must include at least one field.	<b>rf_settings_patch_body</b>

#### rf\_settings\_patch\_body

Name	Schema
<b>bit_rate</b> <i>optional</i>	integer
<b>channel</b> <i>optional</i>	integer
<b>preamble_code</b> <i>optional</i>	integer
<b>preamble_length</b> <i>optional</i>	integer
<b>prf</b> <i>optional</i>	integer

#### 2.15.5.2 Responses

HTTP Code	Description	Schema
200	RF Setting	Response 200
404	Not found.	Response 404
500	Internal error.	Response 500

**Response 200**

Name	Schema
<b>rf_settings</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 500**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.16 Roles****2.16.1 The POST method for adding a new role.**

```
POST /cuwbnets/{cuwb_name}/roles
```

**2.16.1.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Body	<b>role_body</b> <i>required</i>	The request body	role_body

**role\_body**

Name	Schema
<b>name</b> <i>optional</i>	string
<b>network_period</b> <i>optional</i>	integer
<b>window_duration</b> <i>optional</i>	integer

**2.16.1.2 Responses**

HTTP Code	Description	Schema
201	Device Role	<a href="#">Response 201</a>
400	Invalid request.	<a href="#">Response 400</a>
409	Conflict.	<a href="#">Response 409</a>
500	Internal error.	<a href="#">Response 500</a>

**Response 201**

Name	Schema
<b>role</b> <i>optional</i>	string

**Response 400**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 409**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 500**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.16.2 The GET method for a list of all roles.**

```
GET /cuwbnets/{cuwb_name}/roles
```

**2.16.2.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string

**2.16.2.2 Responses**

HTTP Code	Description	Schema
200	Device Roles	<a href="#">Response 200</a>
404	Not found.	<a href="#">Response 404</a>

**Response 200**

Name	Schema
<b>roles</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.16.3 The GET method for a single role.**

```
GET /cuwbnet/{cuwb_name}/roles/{role_id}
```

**2.16.3.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>role_id</b> <i>required</i>	An id for roles.	integer

**2.16.3.2 Responses**

HTTP Code	Description	Schema
<b>200</b>	Device Role	Response 200
<b>404</b>	Not found.	Response 404

**Response 200**

Name	Schema
<b>role</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.16.4 The DELETE method for a single role.**

```
DELETE /cuwbnet/{cuwb_name}/roles/{role_id}
```

**2.16.4.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>role_id</b> <i>required</i>	An id for roles.	integer

#### 2.16.4.2 Responses

HTTP Code	Description	Schema
204	Item deleted.	Response 204

#### Response 204

Name	Schema
<b>message</b> <i>optional</i>	string

### 2.16.5 The PATCH method for a single role.

```
PATCH /cuwbnets/{cuwb_name}/roles/{role_id}
```

#### 2.16.5.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>role_id</b> <i>required</i>	An id for roles.	integer
Body	<b>role_body</b> <i>required</i>	The request body	role_body

#### role\_body

Name	Schema
<b>name</b> <i>optional</i>	string
<b>network_period</b> <i>optional</i>	integer
<b>window_duration</b> <i>optional</i>	integer

#### 2.16.5.2 Responses



HTTP Code	Description	Schema
200	Role	Response 200
400	Invalid request.	Response 400
404	Not found.	Response 404
500	Internal error.	Response 500

### Response 200

Name	Schema
<b>role</b> <i>optional</i>	string

### Response 400

Name	Schema
<b>message</b> <i>optional</i>	string

### Response 404

Name	Schema
<b>message</b> <i>optional</i>	string

### Response 500

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.17 Settings

### 2.17.1 The POST method to create a new setting.

```
POST /cuwbnet/{cuwb_name}/settings
```

#### 2.17.1.1 Parameters

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Body	<b>settings_body</b> <i>required</i>	The request body	object

#### 2.17.1.2 Responses

HTTP Code	Description	Schema
200	Setting	Response 200
409	Conflict.	Response 409
500	Internal error.	Response 500

**Response 200**

Name	Schema
<b>setting</b> <i>optional</i>	string

**Response 409**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 500**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.17.2 The GET method for a list of all settings.**

```
GET /cuwbnets/{cuwb_name}/settings
```

**2.17.2.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string

**2.17.2.2 Responses**

HTTP Code	Description	Schema
200	Setting List	Response 200

**Response 200**

Name	Schema
<b>settings_list</b> <i>optional</i>	string

**2.17.3 The PUT method for a single setting.**

```
PUT /cuwbnets/{cuwb_name}/settings
```

**2.17.3.1 Parameters**

Type	Name	Description	Schema
<b>Path</b>	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
<b>Body</b>	<b>settings_body</b> <i>required</i>	The request body	object

### 2.17.3.2 Responses

HTTP Code	Description	Schema
<b>200</b>	Setting	Response 200
<b>500</b>	Internal error.	Response 500

#### Response 200

Name	Schema
<b>setting</b> <i>optional</i>	string

#### Response 500

Name	Schema
<b>message</b> <i>optional</i>	string

## 2.17.4 The PATCH method for a single setting.

```
PATCH /cuwbnets/{cuwb_name}/settings
```

### 2.17.4.1 Parameters

Type	Name	Description	Schema
<b>Path</b>	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
<b>Body</b>	<b>settings_body</b> <i>required</i>	The request body	object

### 2.17.4.2 Responses

HTTP Code	Description	Schema
<b>200</b>	Setting	Response 200
<b>404</b>	Not found.	Response 404
<b>500</b>	Internal error.	Response 500

#### Response 200

Name	Schema
<b>setting</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**Response 500**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.17.5 The GET method for a single setting.**

```
GET /cuwbnets/{cuwb_name}/settings/{key}
```

**2.17.5.1 Parameters**

Type	Name	Description	Schema
<b>Path</b>	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
<b>Path</b>	<b>key</b> <i>required</i>	The key of the setting to use.	string

**2.17.5.2 Responses**

HTTP Code	Description	Schema
<b>200</b>	Setting	<a href="#">Response 200</a>
<b>404</b>	Not found.	<a href="#">Response 404</a>

**Response 200**

Name	Schema
<b>setting</b> <i>optional</i>	string

**Response 404**

Name	Schema
<b>message</b> <i>optional</i>	string

**2.17.6 The DELETE method for a single setting.**

```
DELETE /cuwbnets/{cuwb_name}/settings/{key}
```

**2.17.6.1 Parameters**

Type	Name	Description	Schema
Path	<b>cuwb_name</b> <i>required</i>	The name of the database to use.	string
Path	<b>key</b> <i>required</i>	The key of the setting to use.	string

#### 2.17.6.2 Responses

HTTP Code	Description	Schema
204	Item deleted.	Response 204

#### Response 204

Name	Schema
<b>message</b> <i>optional</i>	string