

AHJ Registry API

Authentication

The AHJ Registry's API uses token-based authentication. To get a token, follow these steps.

- 1) Go to <https://ahjregistry.sunspec.org>, and click 'Login' in the top-right corner.
- 2) Under the username and password input boxes, click 'Sign Up'.
- 3) Enter an email address, first name, last name, and password.
- 4) Click 'Submit'. There will be a notification asking you to check your email to confirm your account.
- 5) Sign in to your email account and click 'Confirm your account'. A new tab will open that says 'Success'.

Now that your account is made, you can get your token following these steps.

- 1) Use a program that can send, receive and view requests. (i.e. Postman)
- 2) Send a POST request with the following object in the request body to

<https://ahjregistry.sunspec.org/api/v1/login/>:

```
{
  "username": "<your AHJ Registry account email address>",
  "password": "<your AHJ Registry account password>"
}
```

- 3) You should receive the following response where 'auth_token' is your token:

```
{
  "status": "success",
  "is_superuser": false,
  "is_staff": false,
  "auth_token": "<your AHJ Registry authentication token>"
}
```

- 4) For all of your requests to the AHJ Registry API, add this to your request header:
"Authorization": "Token <your AHJ Registry authentication token>"

For example, "Token a86c120d6ba4e95981c48f5b5bad354f6034873d"

Orange Button

The AHJ Registry API sends and receives objects following the definitions in the Orange Button taxonomy. To get more detail about how these objects are structured, please visit <https://obeditor.sunspec.org/>.

Orange Button object definitions used by the AHJ Registry:

- Authority Having Jurisdiction
- Contact
- Address

- Location
- EngineeringReviewRequirement

To view these object definitions:

- 1) Go to <https://obeditor.sunspec.org/>
- 2) Click the '+' sign in the top-left.
- 3) In the 'Load Schema' window, click 'View/Edit Dependency'.
- 4) Click 'Master-OB-OpenAPI-030420.json', and then click 'Open'.
- 5) Now the 'Master-OB-OpenAPI-030420.json' file is open. You can use the search bar to find the object definition you want to view.
- 6) Click on the object definition you want to view in the left pane.
- 7) In the right pane, you will see more details about the object. You can also click 'Create Sample JSON' to download an example object JSON structure.

Find AHJ's by Address

When sent an Orange Button Address object, this will return the AHJ's whose jurisdiction their address contains.

- 1) Send a POST request with an Orange Button Address object in the request body to <https://ahjregistry.sunspec.org/api/v1/geo/address/>:

```
{
  "AddrLine1": {
    "Value": "106 W 1st St"
  },
  "City": {
    "Value": "Los Angeles"
  },
  "StateProvince": {
    "Value": "CA"
  },
  "ZipPostalCode": {
    "Value": "90012"
  }
}
```

- 2) You will receive an array of Orange Button AHJ objects, sorted by AHJ level code from highest to lowest.

Find AHJ's by Geolocation (Longitude, Latitude)

When sent an Orange Button Location object, this will return the AHJ's whose jurisdiction their address contains.

- 1) Send a POST request with an Orange Button Location object in the request body to <https://ahjregistry.sunspec.org/api/v1/geo/location/>:

```
{
  "Longitude": {
    "Value": -118.2437
```

```
    },  
    "Latitude": {  
        "Value": 34.0522  
    }  
}
```

- 2) You will receive an array of Orange Button AHJ objects, sorted by AHJ level code from highest to lowest.

API View Modes:

There are two API view modes that will change what values are returned for each field in the AHJ object.

To change view modes when making a request to the AHJ Registry API, add the parameter 'view' with it equal to a view mode parameter value.

For example, <https://ahjregistry.sunspec.org/api/v1/geo/address/?view=latest>

- **Latest**
 - View mode parameter value: latest
 - This is the default view mode. Each field of the AHJ's will have the most recently submitted values.
- **Confirmed Only**
 - View mode parameter value: confirmed
 - Each field of the AHJ's will have the most recently confirmed values. These values are confirmed by admins of the AHJ Registry or owners of the AHJ.