

Okofen Pellet Boiler

BMON Configuration

By Alan Mitchell, Analysis North

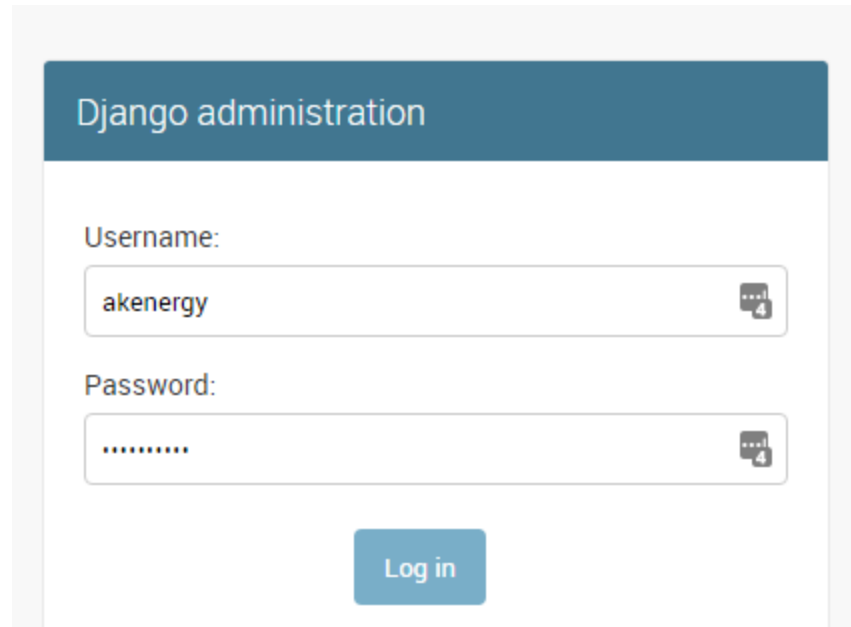
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Log In to Admin Interface

<https://bmon.akenergy.webfactional.com/admin/>

User: akenergy

Password: yourpassword



The image shows a screenshot of the Django administration login page. At the top, there is a dark blue header with the text "Django administration" in white. Below the header, the page is white. There are two input fields: "Username:" with the value "akenergy" and "Password:" with a masked password ".....". Both input fields have a small icon of a speech bubble with a "4" inside, indicating a character count. Below the input fields is a blue "Log in" button.

Add a Periodic Script

Django administration

Site administration

AUTHENTICATION AND AUTHORIZATION		
Groups	+ Add	✎ Change
Users	+ Add	✎ Change
BMSAPP		
Alert recipients	+ Add	✎ Change
Building groups	+ Add	✎ Change
Building modes	+ Add	✎ Change
Buildings	+ Add	✎ Change
Multi building charts	+ Add	✎ Change
Periodic scripts	+ Add	✎ Change
Sensor groups	+ Add	✎ Change
Sensors	+ Add	✎ Change
Units	+ Add	✎ Change

Okofen Configuration

Change periodic script

File name of script:

okofen

Must be "okofen"

Optional Description:

Haines Boiler

How often should script run:

30 min ▼

Script Parameters in YAML form:

```
url: http://[redacted].26:8888
site_id: HainesSrCtr
tz_data: US/Hawaii
```

"url" and "site_id" are required.
"tz_data" defaults to US/Alaska if not present.

This is info produced when the script actually runs.

Script results in YAML form:

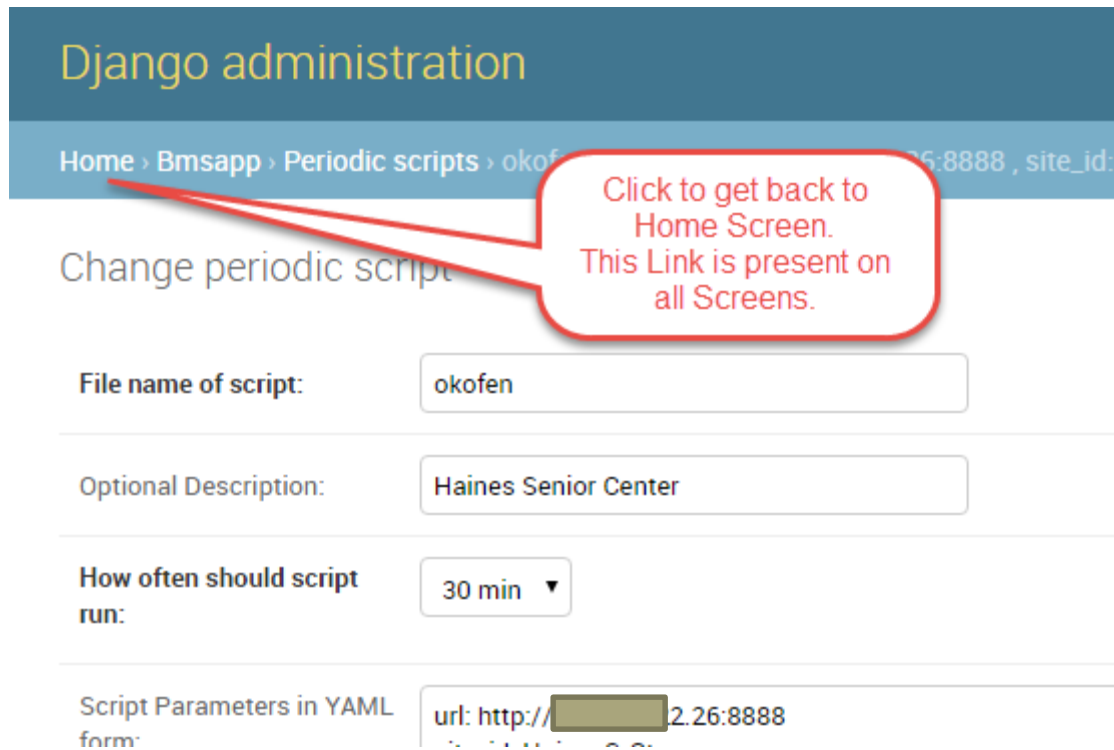
```
last_date_loaded: '2016-12-05'
reading_insert_message: 2962 readings stored successfully, 0 rejected.
script_errors: "
script_execution_time: 1.69
script_start_time: 2016-12-05 18:18:26 UTC
sensor_ids: HainesSrCtr_boiler_1, HainesSrCtr_boiler_1_set, HainesSrCtr_P107, HainesSrCtr_P109,
HainesSrCtr_P112, HainesSrCtr_P115, HainesSrCtr_P116, HainesSrCtr_P117, HainesSrCtr_P124,
HainesSrCtr_P184, HainesSrCtr_P185, HainesSrCtr_P241
```

Delete

More Documentation in the "Collect Data from Okofen Pellet Boilers" section of this page:

<https://github.com/alanmitchell/bmon/wiki/Periodic-Scripts>

Get Back to the Home Screen



The image shows a screenshot of the Django administration interface. At the top, there is a blue header with the text "Django administration" in yellow. Below the header is a breadcrumb trail: "Home > Bmsapp > Periodic scripts > okofen". A red callout box with a white background and a red border points to the "Home" link in the breadcrumb. The callout box contains the text: "Click to get back to Home Screen. This Link is present on all Screens." Below the breadcrumb trail, the page title is "Change periodic script". The form contains several fields: "File name of script:" with the value "okofen"; "Optional Description:" with the value "Haines Senior Center"; "How often should script run:" with a dropdown menu set to "30 min"; and "Script Parameters in YAML form:" with a text area containing "url: http://[redacted]2.26:8888".

Django administration

Home > Bmsapp > Periodic scripts > okofen 26:8888 , site_id: H

Change periodic script

Click to get back to Home Screen.
This Link is present on all Screens.

File name of script: okofen

Optional Description: Haines Senior Center

How often should script run: 30 min ▼

Script Parameters in YAML form: url: http://[redacted]2.26:8888

Add a New Building

Django administration

Site administration

AUTHENTICATION AND AUTHORIZATION

Groups	+ Add	✎ Change
Users	+ Add	✎ Change

BMSAPP

Alert recipients	+ Add	✎ Change
Building groups	+ Add	✎ Change
Building modes	+ Add	✎ Change
Buildings	+ Add	✎ Change
Multi building charts	+ Add	✎ Change
Periodic scripts	+ Add	✎ Change
Sensor groups	+ Add	✎ Change
Sensors	+ Add	✎ Change
Units	+ Add	✎ Change

Configure Building

Change building

Title:

Haines Senior Center



Current Operating Mode:

----- ▾



Additional Building Documentation:

Use markdown syntax to add links, pictures, etc. Note that you must include the url prefix (e.g. <http://>) in your links.

Latitude:

59.232299

Longitude:

-135.445172

Time Zone of Facility, from tz database:

US/Alaska

Occupied Schedule of Facility (e.g. M-F. 8a-5p):

More Documentation in the “Adding a Building” section of this page:
<https://github.com/alanmitchell/bmon/wiki/Adding-Buildings-and-Sensors>

Add all the Sensors

Site administration

AUTHENTICATION AND AUTHORIZATION		
Groups	+ Add	✎ Change
Users	+ Add	✎ Change
BMSAPP		
Alert recipients	+ Add	✎ Change
Building groups	+ Add	✎ Change
Building modes	+ Add	✎ Change
Buildings	+ Add	✎ Change
Multi building charts	+ Add	✎ Change
Periodic scripts	+ Add	✎ Change
Sensor groups	+ Add	✎ Change
Sensors	+ Add	✎ Change
Units	+ Add	✎ Change

Configure Each Boiler Sensor

Change sensor

HISTORY

Sensor ID, or Calculated Field ID:

HainesSrCtr_P107



Title:

Flue/Flame Temperature, P107

Unit:

temperature: deg F



Please enter descriptive notes about the sensor.

No sensor notes available.

The Sensor ID is a combination of the "site_id" you entered for the Periodic Script and the Okofen Parameter Code.

BLDG TO SENSORS

BUILDING

SENSOR GROUP

SORT ORDER

DELETE?

Haines Senior Center: Flue/Flame Temperature, P107

Haines Senior Center



Pellet Boiler



30







999

Assign the Sensor to a Building and a Sensor Group

More Documentation in the "Adding Sensors" section of this page:
<https://github.com/alanmitchell/bmon/wiki/Adding-Buildings-and-Sensors>

Add Weather Data Sensors

Change sensor

Sensor ID, or Calculated Field ID:

pahn_temp

Make up a Sensor ID. Must be unique for the BMON server.

Title:

Haines Airport Temperature

Unit:

temperature: deg F



Please enter descriptive notes about the sensor.

No sensor notes available.

MUST be checked !!

The following are available:
getInternetTemp: Temperature, deg F
getInternetWindSpeed: Wind Speed, mph
getInternetRH: Relative Humidity in %
Change the "Unit" entry above accordingly

Calculated Field

Transform or Calculated Field Function Name:

getInternetTemp

Function Parameters in YAML form:

stnCode: PAHN

4 Character National Weather Service code for the Station.

Don't forget to assign to 1 or more buildings down below this section.

More Documentation in the "Acquiring Weather Data from the Internet" section of this page:

<https://github.com/alanmitchell/bmon/wiki/Calculated-Fields>

Sensor IDs for Boiler Sensors

The Table below assumes the “site_id” was set to “HainesSrCtr”

Sensor Name	Sensor ID
P107 Flue/Flame temp	HainesSrCtr_P107
P112 Burner Startups	HainesSrCtr_P112
Boiler 1	HainesSrCtr_boiler_1

In general, if the Sensor has a Pxxx parameter number, the Sensor ID will be <site_id>_Pxxx.

If there is no Pxxx ID number, the Sensor ID will be <site_id>_<formatted sensor name>, where the <formatted sensor name> is the Sensor Name converted to lower case with all spaces and slashes converted to an underbar character (_), and period characters are removed.

Final Comments

- Don't worry about making mistakes, as the database is backed up regularly.
- Call Alan Mitchell with questions: 907-310-9124, 907-338-0963.
- Remember to Refresh (F5) your Browser to see the changes you have made in the Admin interface.
- Lots more BMON Administration Documentation at:

<https://github.com/alanmitchell/bmon/wiki/System-Administrator-Introduction>