
pypotal*multissidLibrary Documentation*

Release 1.0

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Dec 08, 2020

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Allows PyPortal to connect to multiple SSIDs

CHAPTER 1

Dependencies

This driver depends on:

- Adafruit CircuitPython
- Adafruit CircuitPython PyPortal

Please ensure all dependencies are available on the CircuitPython filesystem. This is easily achieved by downloading the [Adafruit library and driver bundle](#).

CHAPTER 2

Usage Example

This module implements a child class build upon Adafruit's PyPortal class. The class implements just one method, overriding a base method, allowing the PyPortal device to connect to more than one SSID. To use, invoke this class where you would have used the PyPortal class. For example:

```
from pyportal_multissid import PyPortal_MultiSSID
pyportal = PyPortal_MultiSSID(status_neopixel=board.NEOPIXEL)
```

Configure your "home" network as 'ssid' and 'password' as usual in your *secrets.py* file, then add any additional networks (such as phone hotspot, *MiFi* devices, and networks at places the PyPortal will visit) as described below. The PyPortal then becomes portable.

The alteration of *secrets.py* is to include one extra key/value pair. The key is 'hotspots' and the value is a list of pairs of ssid and password strings:

```
secrets = {
    # Whatever is already in your secrets dict remains.
    # Be sure to add a now-needed comma if there isn't one.
    'hotspots': [
        ['myphonessid', 'thepassword'],
        ['mymifissid', 'itspassword'],
        ['myvacationhomessid', 'dontyouwish'],
    ],
}
```

See examples/pyportal_multissid_simpletest.py

CHAPTER 3

Contributing

Contributions are welcome! Please read our [Code of Conduct](#) before contributing to help this project stay welcoming.

CHAPTER 4

Documentation

For information on building library documentation, please check out [this guide](#).

CHAPTER 5

Table of Contents

5.1 Simple test

Ensure your device works with this simple test.

Listing 1: examples/pyportal_multissid_simpletest.py

```
1  """Simple test of PyPortal_MultiSSID
2  """
3
4  # This test requires a secrets.py file on your PyPortal.
5  # At a minimum, the secrets dictionary in that file will contain:
6  #     * Your Adafruit IO username and key, required for get_local_time()
7  #     * The ssid and password of your "home" network.
8  #     * A hotspots entry that will be a list of ssid/password tuples
9  #         corresponding to "away" networks, such as your phone operating
10 #             as a hotspot, a "MiFi" device, or any other place you expect
11 #                 the device to operate.
12 # Note: Places like hotels and Starbucks are not supported because
13 #     they require visiting a sign-in page and interacting with it.
14 #     This class is for known, passphrase-protected networks with
15 #     no web-based sign-in.
16
17 import time
18 import board
19 from pyportal_multissid import PyPortal_MultiSSID
20
21 # PyPortal_MultiSSID class is invoked exactly the same way as PyPortal.
22 pyportal = PyPortal_MultiSSID(status_neopixel=board.NEOPIXEL)
23 while True:
24     try:
25         pyportal.get_local_time()
26     except RuntimeError:
27         print('get_local_time failed...')
```

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```
28     time.sleep(60)
29
```

5.2 pyportal_multissid

Allows PyPortal to connect to multiple SSIDs

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5.2.1 Implementation Notes

Hardware:

- Adafruit PyPortal
- Adafruit PyPortal Titano
- Adafruit PyPortal Pynt

Software and Dependencies:

- Adafruit CircuitPython firmware for the supported boards: <https://github.com/adafruit/circuitpython/releases>
- Adafruit's PyPortal library: https://github.com/adafruit/Adafruit_CircuitPython_PyPortal

class pyportal_multissid.**PyPortal_MultiSSID**(*args, **kwargs)

Overrides PyPortal class method to allow for multiple SSIDs.

CHAPTER 6

Indices and tables

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