
OTA Update for Smart Plug 16A

Please make sure the following configurations are done before starting the OTA (Over-The-Air) process for SP16.

1. .Bin File Setup -> Create the .bin file of the ready-to-upload code. Follow the below steps to create a .bin file,
 - a. Open the Arduino IDE.
 - b. Go to Sketch.
 - c. Select the "Export Compiled Binary" option.
 - d. automatically file will be created where the main Arduino file is located.

2. Flask Service Configuration -> Please run the below flask service for the .bin file return

```
from flask import Flask, make_response, send_file

app = Flask(__name__)

@app.route("/sp16")
def return_pdf():
    filename = 'SmartPlug.ino.esp32.bin'
    ##    return "From Flask Service"
    return send_file(filename)

if __name__ == "__main__":
    app.run(host='0.0.0.0', port=1000)
```

- a. First relocate the .bin file where the above python code file is located.
 - b. Change the .bin file name as mentioned in the python code or make a change in the python code.
 - c. Run the python service. Before that, ensure your system is routed to the server for static IP.
 - d. The static IP and port are **203.109.124.70:1000**.
 - e. Please Note -> The Static IP and port total length should not change. The IP and port number can change but the length should not change.
 - f. The @app. route -> **/sp16** should note a change in service.
3. MQTTbox Setup -> Total of two topics are there for the SP16 OTA update,
 - a. Global OTA Update, where all SP16 will get updated. The topic is **SP16_Global_OTA**.
 - b. Dedicated device OTA update, where a single device can update. The topic is **evzspABCD/SP16_OTA**. The device will change for every device.

Evoluzn - mqtt://107.180.94.60:18889

Topic to publish

QoS

Retain ☐

Payload Type

e.g: {'hello':'world'}

Payload

Evoluzn - mqtt://107.180.94.60:18889

Topic to publish

QoS

Retain ☐

Payload Type

e.g: {'hello':'world'}

Payload

4. Once the OTA will be done, Will receive the following message on MQTT Box,
- a. For Individual devices,

```
OTA DONE: evzspB17C4C
```

```
qos : 0, retain : false, cmd : publish, dup : false, topic  
: evzspB17C4C/status, messageld : , length : 41
```

- b. For global device,

```
OTA DONE: Global_SP16
```

```
qos : 0, retain : false, cmd : publish, dup : false, topic  
: evzspB17C4C/status, messageld : , length : 41
```

Thank You!