OTA (over the air) firmware upload for ESP8266

http://docs.platformio.org/en/stable/projectconf.html
https://esp8266.github.io/Arduino/versions/2.0.0/doc/ota_updates/ota_updates.html
https://www.youtube.com/watch?v=GoQXOLB50HA
https://ptarmiganlabs.com/blog/2016/02/23/esp8266-over-the-air-updating-what-are-the-options/
https://harizanov.com/2015/06/firmware-over-the-air-fota-for-esp8266-soc/

Ejemplo de arduino

El ejemplo de github está desactualizado y no funciona, tomado desde el IDE de arduino si funciona.
https://github.com/esp8266/Arduino/blob/master/libraries/ArduinoOTA/examples/BasicOTA/BasicOTA.ino

Se fusiona el código de OTA con la librería WifiManager para administrar la configuración a la red.

```
/*
* El código de los ejemplos de github es diferente al de el IDE de arduino.
El de github no funcionó
*/

#include <ESP8266WiFi.h>
#include <ESP8266mDNS.h>
#include <WiFiUdp.h>
#include <ArduinoOTA.h>
#include <WiFiManager.h>         // https://github.com/tzapu/WiFiManager

void setup() {
  Serial.begin(115200);
  Serial.println("Booting");

  //WiFiManager
  //Local intialization. Once its business is done, there is no need to keep
it around
  WiFiManager wifiManager;
  //reset saved settings
  //wifiManager.resetSettings();

  //set custom ip for portal
  //wifiManager.setAPConfig(IPAddress(10,0,1,1), IPAddress(10,0,1,1),
IPAddress(255,255,255,0));

  //fetches ssid and pass from eeprom and tries to connect
  //if it does not connect it starts an access point with the specified name
  //here  "AutoConnectAP"
```

```
  //and goes into a blocking loop awaiting configuration
  wifiManager.autoConnect("AutoConnectAP");
  //or use this for auto generated name ESP + ChipID
  //wifiManager.autoConnect();


  //if you get here you have connected to the WiFi
  Serial.println("connected...yeey :)");


  // Port defaults to 8266
  // ArduinoOTA.setPort(8266);

  // Hostname defaults to esp8266-[ChipID]
  // ArduinoOTA.setHostname("myesp8266");

  // No authentication by default
  // ArduinoOTA.setPassword((const char *)"123");

  ArduinoOTA.onStart([]() {
    Serial.println("Start");
  });
  ArduinoOTA.onEnd([]() {
    Serial.println("\nEnd");
  });
  ArduinoOTA.onProgress([](unsigned int progress, unsigned int total) {
    Serial.printf("Progress: %u%%\r", (progress / (total / 100)));
  });
  ArduinoOTA.onError([](ota_error_t error) {
    Serial.printf("Error[%u]: ", error);
    if (error == OTA_AUTH_ERROR) Serial.println("Auth Failed");
    else if (error == OTA_BEGIN_ERROR) Serial.println("Begin Failed");
    else if (error == OTA_CONNECT_ERROR) Serial.println("Connect Failed");
    else if (error == OTA_RECEIVE_ERROR) Serial.println("Receive Failed");
    else if (error == OTA_END_ERROR) Serial.println("End Failed");
  });
  ArduinoOTA.begin();
  Serial.println("Ready after OTA desconectado del pc");
  Serial.print("IP address: ");
  Serial.println(WiFi.localIP());
}

void loop() {
  ArduinoOTA.handle();
}
```

From:
https://wiki.unloquer.org/ -

Permanent link:
https://wiki.unloquer.org/proyectos/jardin_delicias/tecnologicos/esp8266_ota?rev=1475781583

Last update: **2016/10/06 19:19**