```
1 #include <WiFiNINA.h>
 2 #include "arduino secrets.h"
 3 #include "carte 3.h"
 5 int status = WL IDLE STATUS;
 6
7 char serverAddress[] = "78.193.132.197";
8 int serverPort = 80;
9 WiFiClient client;
10
11 void setup()
12 {
   Serial.begin(9600);
1.3
14
    //while (!Serial);
15
16
    if (client.connected())
17
18
       Serial.println("Stop connection.");
19
       client.print("stop");
20
       client.stop();
21
    }
22
23
    if (WiFi.status() == WL_NO MODULE)
24
25
       Serial.println("Communication with WiFi module failed!");
26
       while (true);
27
28
    String fv = WiFi.firmwareVersion();
29
30
    if (fv < "1.0.0") Serial.println("Please upgrade the firmware");</pre>
31
32
33
     while (status != WL CONNECTED)
34
35
       Serial.print("Attempting to connect to WEP network, SSID: ");
36
      Serial.println(SECRET SSID);
37
38
       #ifdef WEP
39
        status = WiFi.begin(SECRET SSID, KEY INDEX, SECRET PASS);
40
41
        status = WiFi.begin(SECRET SSID, SECRET PASS);
42
       #endif
43
      delay(1000);
44
45
    Serial.println("You're connected to the network");
47
48
   printCurrentNet();
49
    printWifiData();
50
    Serial.println("");
51
    setupClient();
52
    delay(1000);
53
54 }
55
56 void setupClient()
57 {
58
    Serial.println("Tentative de connection au serveur " + String(serverAddress));
59
60
    if (client.connect(serverAddress, serverPort))
61
62
       Serial.println("Connexion effectuée.");
63
       client.print("arduino");
       String msg = "card_id " + String(CARTE_ID) + " " + createRequest();
64
65
       client.print(msg);
66
       Serial.println(msg);
67
    }
68
    else
69
    {
70
       Serial.println("Connexion échouée.");
71
72 }
73
74 String createRequest()
75 {
     String msg = "";
```

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```
msg += "X: " + String(POS_X) + ", ";
 77
      msg += "Y: " + String(POS Y) + ", ";
      msg += "RSSI: " + String(WiFi.RSSI()) + ", ";
 79
 80
     return msq;
 81 }
 82
 83 void loop()
 84 {
      if (client.available())
 86
 87
        Serial.print("Le serveur a envoye : \"");
 88
 89
        while (client.available())
 90
 91
          char c = client.read();
 92
          Serial.print(c);
 93
 94
        Serial.println("\"");
 9.5
 96
     }
 97
 98
     if (client.connected())
 99
100
        String msg = createRequest();
101
        client.print(msg);
102
        Serial.println(msg);
103
104
105
     delay(50);
106 }
107
108 void printWifiData()
109 {
110
      // print your board's IP address:
      IPAddress ip = WiFi.localIP();
111
     Serial.print("IP Address: ");
112
113
      Serial.println(ip);
114
     Serial.println(ip);
115
      // print your MAC address:
116
     byte mac[6];
117
118
     WiFi.macAddress(mac);
119
     Serial.print("MAC address: ");
120
      printMacAddress(mac);
121 }
122
123 void printRSSI()
124 {
      Serial.print("signal strength (RSSI):");
125
126
      Serial.println(WiFi.RSSI());
127 }
128
129 void printCurrentNet()
130 {
131
      // print the SSID of the network you're attached to:
     Serial.print("SSID: ");
132
133
     Serial.println(WiFi.SSID());
134
      // print the MAC address of the router you're attached to:
135
136
     byte bssid[6];
137
     WiFi.BSSID(bssid);
138
     Serial.print("BSSID: ");
139
     printMacAddress(bssid);
140
141
     // print the received signal strength:
142
     printRSSI();
143
      // print the encryption type:
144
145
     byte encryption = WiFi.encryptionType();
      Serial.print("Encryption Type:");
146
147
      Serial.println(encryption, HEX);
148
      Serial.println();
149 }
150
151 void printMacAddress(byte mac[])
152 {
```

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```
C:\Users\Caroline\Desktop\Carte_Arduino.cpp
```

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