

HTTP Data Transfer

(WizFi 210 Application Notes)



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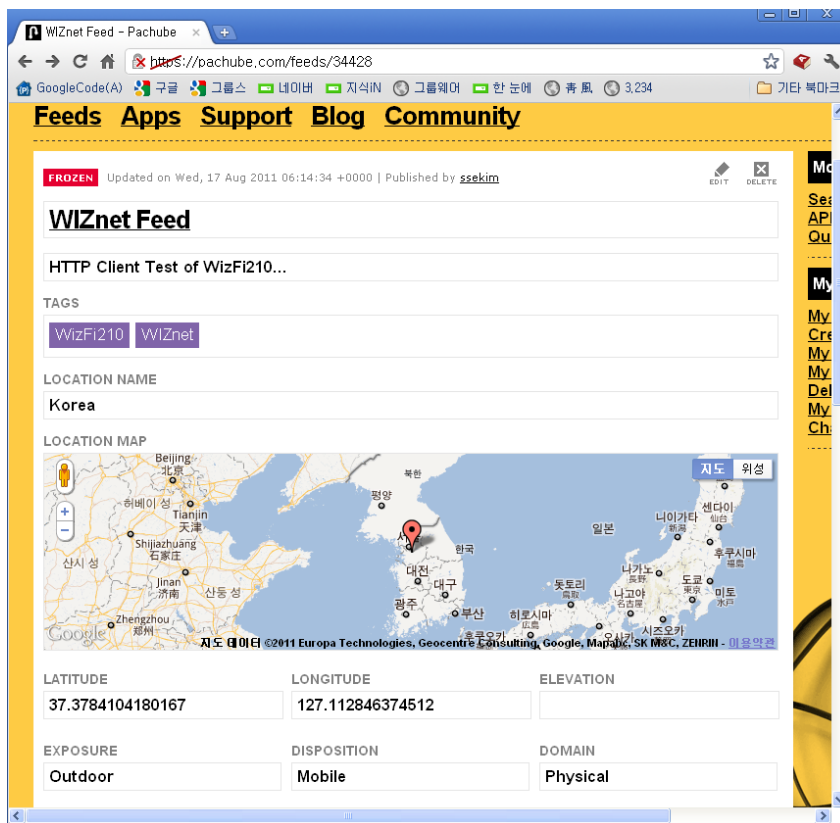
1. Description of HTTP Data Transfer

We will test [HTTP Data Transfer] using Pachube service.

The pachube feed address we created is as below.

<https://pachube.com/feeds/34428>

Of course, you can make new feed item.



2. HTTP PUT

Associate with AP.

```
AT+C0
[OK]
AT+WD
[OK]
AT+NDHCP=0
[OK]
AT+NSET=192. 168. 3. 213,255. 255. 255. 0, 192. 168. 3. 1
[OK]
AT+WPA=12345678
[OK]
AT+WA=WizFiDemoAP
      IP      SubNet      Gateway
192. 168. 3. 213: 255. 255. 255. 0: 192. 168. 3. 1
[OK]
█
```

Start TCP Client to [Pachube]'s IP and port 80. The [AT+CID] command is not mandatory.

```
AT+NCTCP=173. 203. 98. 29,80
[CONNECT 0]

[OK]
AT+CID=?
CID      TYPE      MODE      LOCAL PORT      REMOTE PORT      REMOTE IP
0        TCP        CLIENT    56050           80               173.203. 98. 29

[OK]
█
```

Send data to remote server by using the <ESC>S sequence and the CID number:

```
Enter the [ESC] key
Enter the [S] key
Enter the [CID number] (Maybe CID number is 0.)
```

Send HTML PUT data to remote server.

```
PUT /v2/feeds/34428.csv HTTP/1.1
User-Agent: curl/7.19.5 (i486-pc-linux-gnu) libcurl/7.19.5 OpenSSL/0.9.8g zlib/1.2.3.3libidn/1.15
Host: api.pachube.com
Accept: */*
X-PachubeApiKey:_5TVUszs376KgB2OUHoH4-o6OZ5CV5ie_6dzlQYnROI
Content-Length: 12
Content-Type: application/x-www-form-urlencoded
```

Sensor-A,250

- 34428 : Pachube feed number
- _5TVUszs376KgB2OUHoH4-o6OZ5CV5ie_6dzlQYnROI : Pachube API Key
- Sensor-A,250 : Feed data. You can change this value. ("Sensor-A,100" , "Sensor-A,150")

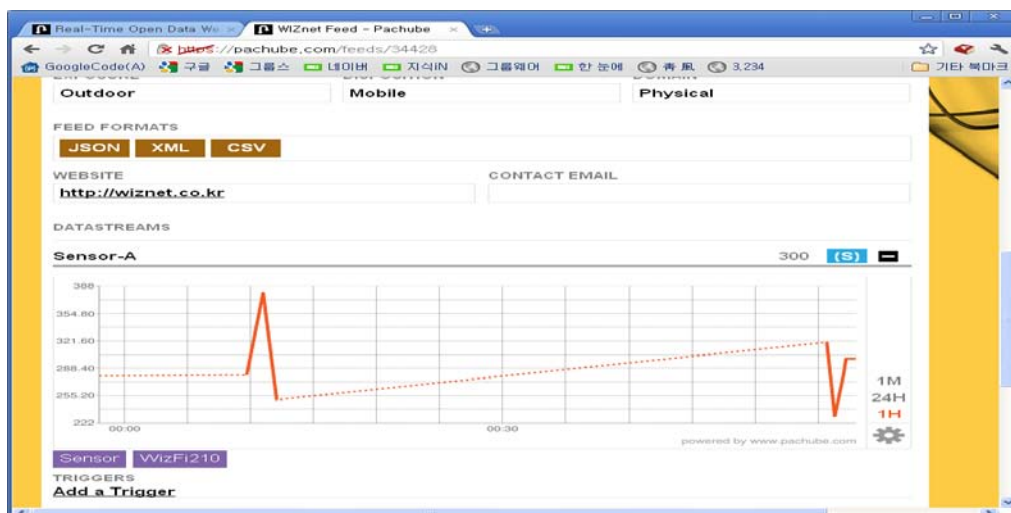
Indicate end of transmission by using the <ESC>E sequence:

Enter the [ESC] key
Enter the [E] key

Close TCP connection with remote server. The [AT+CID] command is not mandatory.

```
AT+NOCLOSEALL
[OK]
AT+CID=?
No valid Cids
[OK]
```

You should now see the data "Sensor-A,250" on <http://pachube.com/feeds/34428>



3. HTTP GET

Associate with AP and connect to the web server.

```
AT+WD
[OK]
AT+NDHCP=0
[OK]
AT+NSET=192.168.3.213,255.255.255.0,192.168.3.1
[OK]
AT+WPA=12345678
[OK]
AT+WA=Wi-Fi DemoAP
      IP           SubNet       Gateway
192.168.3.213: 255.255.255.0: 192.168.3.1
[OK]
AT+NCTCP=173.203.98.29,80
[CONNECT 0]
[OK]
```

Send data to remote server by using the <ESC>S sequence and the CID number:

```
Enter the [ESC] key
Enter the [S] key
Enter the [CID number] (Maybe CID number is 0.)
```

Send HTML GET data to remote server.

```
GET /v2/feeds/34428.csv HTTP/1.1
User-Agent: curl/7.19.5 (i486-pc-linux-gnu) libcurl/7.19.5 OpenSSL/0.9.8g zlib/1.2.3.3 libidn/1.15
Host: api.pachube.com
Accept: */*
X-PachubeApiKey: _5TVUszs376KgB2OUHoH4-o6OZ5CV5ie_6dzlQYnROI
Connection: keep-alive
```

Indicate end of transmission by using the <ESC>E sequence:

```
Enter the [ESC] key
Enter the [E] key
```

And, you can see the HTTP data from the web server.

```
HTTP/1.1 200 OK
Date: Thu, 18 Aug 2011 04:20:21 GMT
Content-Type: text/plain; charset=utf-8
Connection: keep-alive
Last-Modified: Thu, 18 Aug 2011 04:11:16 GMT
Content-Length: 40
Age: 38
Vary: Accept-Encoding
Sensor-A,2011-08-18T04:11:16.475353Z,300
```

Close TCP connection with remote server.

```
AT+NCLOSEALL
[OK]
```