

Advantech AE Technical Share Document

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Category	<input type="checkbox"/> FAQ <input checked="" type="checkbox"/> SOP	Related OS	N/A
Abstract	WISE-40XX, How to test the REST function		
Keyword	RESTful, RESTClient, REST Console		
Related Product	WISE-4012E, WISE-4012, WISE-4010, WISE-4050, WISE-4060		

■ Problem Description:

This documentation explains the test procedure for the REST function support by WISE series. In this SOP, we will use the plug-in provided by Firefox browser which call "REST Client" for the demonstration.

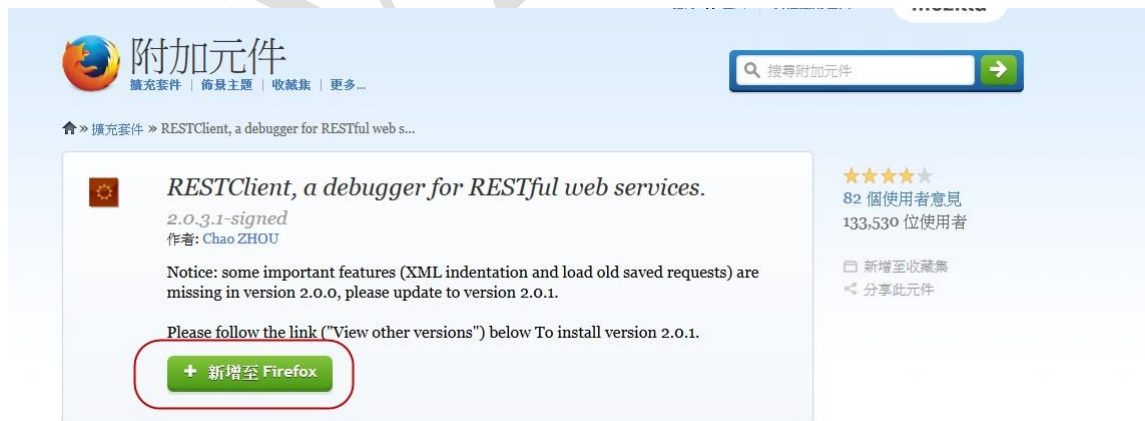
For the Chrome browser, user could use "REST Console", the idea is the same.

■ Brief Solution - Step by Step:

1. Get the "REST Client"

Open the Firefox browser, and install the "REST Client" plug in with the following links and add the plug-in to the Firefox

<https://addons.mozilla.org/zh-tw/firefox/addon/restclient/>

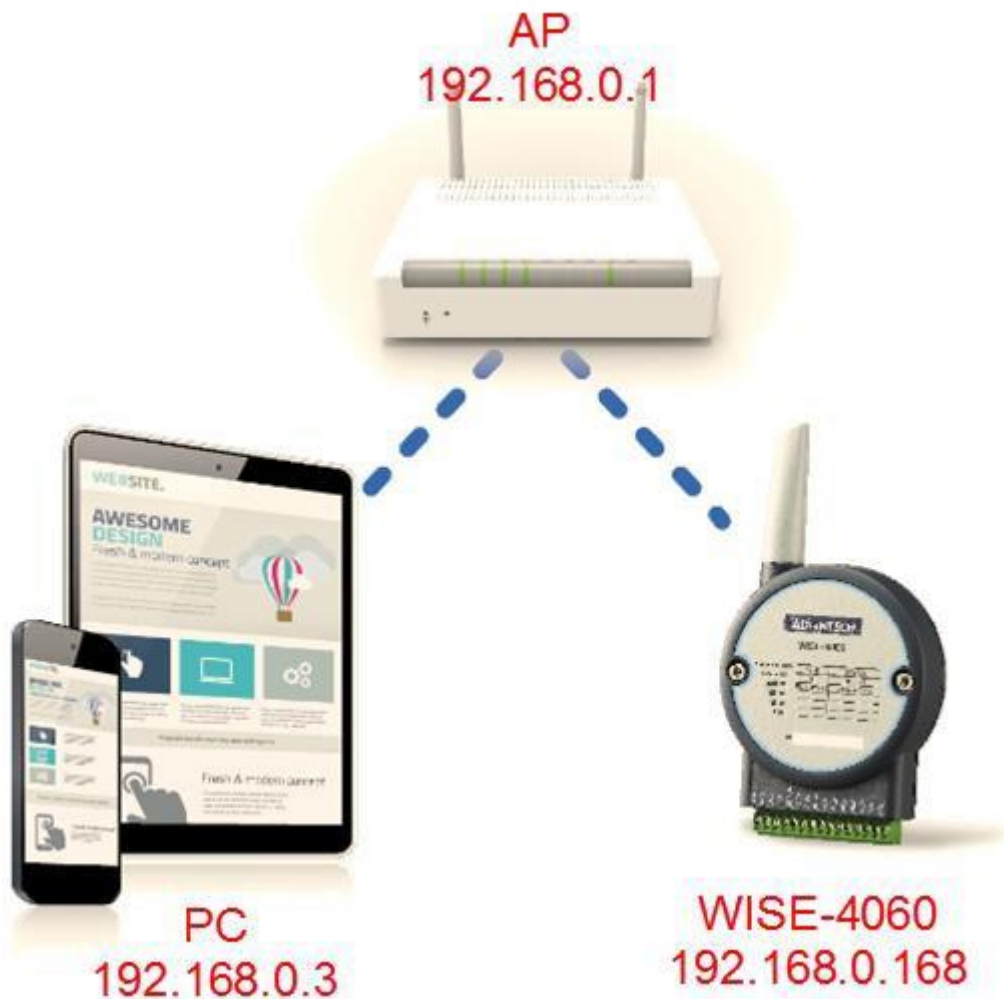


2. Prepare the system environment.

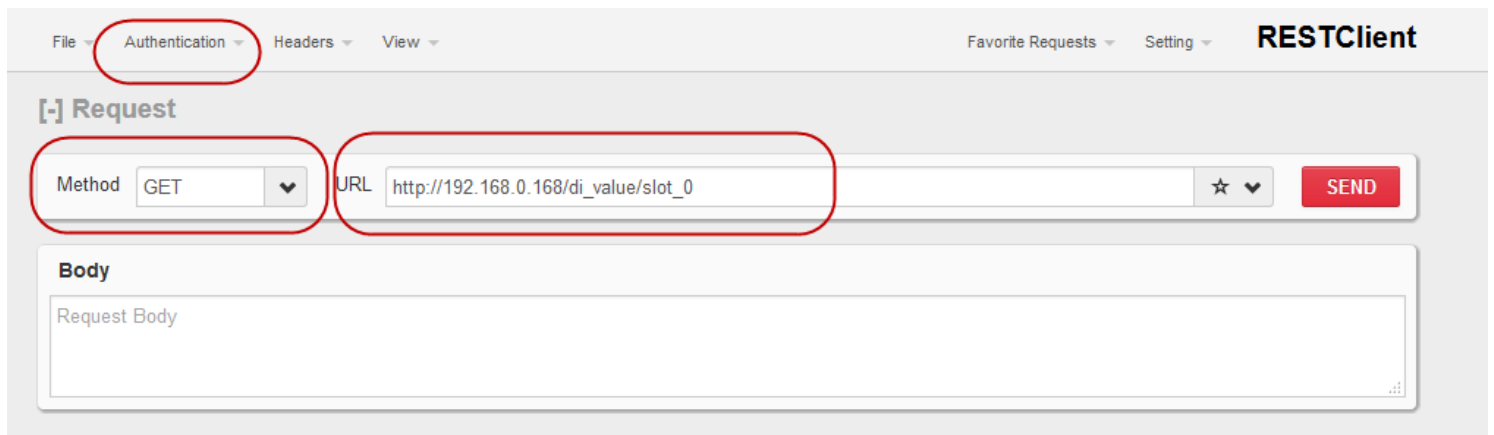
For the test environment, the system structure will look like the following picture.

The end-device is WISE-4060 in the infrastructure mode with proper wireless setting.

The test platform (PC) is connected to the WISE through the local wireless network, which allows the communication between PC and WISE.



3. Use HTTP method "GET" to get I/O status



File Authentication Headers View Favorite Requests Setting RESTClient

[+] Request

Method GET URL `http://192.168.0.168/di_value/slot_0` ☆ SEND

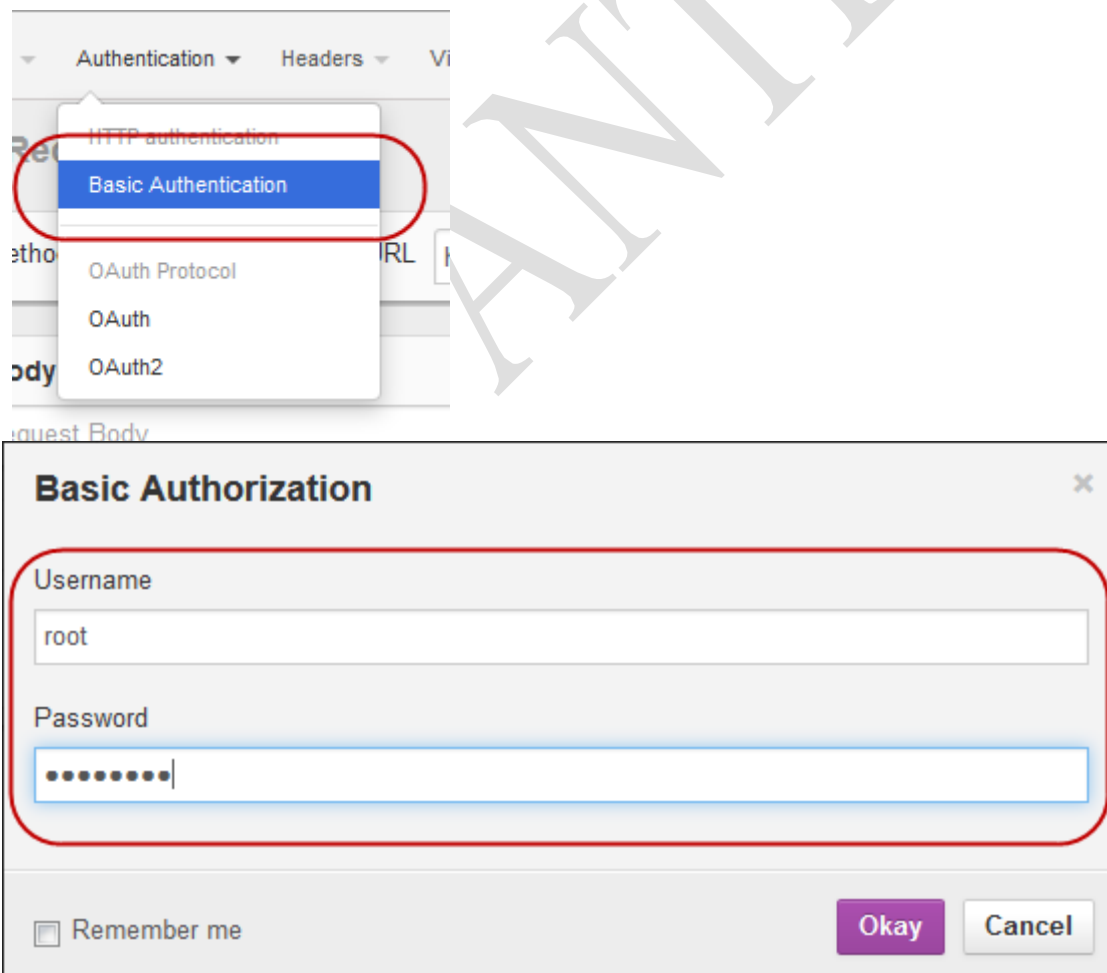
Body

Request Body

Choose "GET" method and enter the URL like "http://192.168.0.168/di_value/slot_0".

(For complete URL structure, please see the appendix B in the WISE's user manual.)

Click the "Authentication", select "Basic Authentication" and enter the correct username and password (The default username: root ; password: 00000000.)



Authentication Headers View

HTTP authentication

Basic Authentication

OAuth Protocol

OAuth

OAuth2

Basic Authorization ✕

Username

root

Password

00000000

☐ Remember me

Okay Cancel

Finally, click the “SEND” to send out the REST command.

[-] Request

Method GET

URL http://192.168.0.168/di_value/slot_0

SEND

Headers

Authorization: Basic cm9vdDowMDA...

Remove All

Body

Request Body

Here’s the response data replied from WISE.

[-] Response

Response Headers

Response Body (Raw)

Response Body (Highlight)

Response Body (Preview)

```
{
  "DIVal": [
    {
      "Ch": 0,
      "Md": 0,
      "Val": 0,
      "Stat": 0,
      "Cnting": 1,
      "OvLch": 0
    },
    {
      "Ch": 1,
      "Md": 0,
      "Val": 0,
      "Stat": 0,
      "Cnting": 1,
      "OvLch": 0
    },
    {
      "Ch": 2,
      "Md": 0,
      "Val": 0,
      "Stat": 0,
      "Cnting": 1,
      "OvLch": 0
    },
    {
      "Ch": 3,
      "Md": 0,
      "Val": 0,
      "Stat": 0,
      "Cnting": 1,
      "OvLch": 0
    }
  ]
}
```

4. Use HTTP method "PUT" to change I/O status

If we want to change the digital output of the WISE, most idea and procedure are the same, and the different part is we need to use http method "PUT" and need to add an extra payload. For the following test, the body attached with PUT method is:

```
{"Ch":2,"Val":0}
```

With the body, we can turn the output channel 2 to off.



The screenshot shows an HTTP client interface with the following fields:

- Method:** PUT
- URL:** http://192.168.0.168/do_value/slot_0/ch_2
- Headers:** Authorization: Basic cm9vdDowMDA...
- Body:** {"Ch":2,"Val":0}

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