

- 1) Demonstrate the documents inside raksource project directory:
1. The three files , gtmbase64, BASE64.h, BASE64.m, under raksource / HTTP / directory are mainly used for user name and password BASE64 encryption and decryption (currently only for encryption) during HTTP digest authentication;
 2. The two files, HttpRequest.m, HttpRequest, under raksource / HTTP / directory are mainly used for phone interacts with module via HTTP after the phone joined Wi-Fi module AP;
 3. The Hpple file under raksource / HTTP / directory is used to parse Wi-Fi SSID HTML data scanned by module via HTTP;
 4. The easyconfig file under raksource / Lib directory is used to configure module to join route;
 5. The Scan file under raksource / Lib directory is used to scan Wi-Fi devices via phone in LAN.
- 2) Demo APP is mainly used to configure module to join in route, shown as below:
1. The phone is currently joined target router, only EASYCONFIG configuration, no AP configuration, is available now, and fill out the following router information. If the target router SSID is hidden, it needs to switch on the "Support hide ssid". If configure multiple Wi-Fi modules joining the same route, "Amount" needs to get "More" selected. If only configure one Wi-Fi module, simply choose "one", then click "Connect" button to proceed configuration, Wi-Fi device information will be returned when succeed, shown as below:

●●●○ 中国联通 下午4:40

SSID:

PSK:

Support hide ssid: ☐

Amount:

module info

MAC=60:C5:A8:60:5F:1E

192.168.2.149

EasyConfigAP Config

2. The phone is currently joined Wi-Fi module AP, now module can join route only by HTTP configuration, not by EASYCONFIG, choose AP Config page under APP, shown as below:

●●●● 中国联通 下午3:45

SSID:

GET

PSK:

User Name:

Password:

Connect

LocalScan

Local Device Num: 0

EasyConfig

AP Config

Click GET button to get Wi-Fi hotspot information scanned, shown as below:

●●●● 中国联通 下午3:45

Cancel

Scan wifi list

LTH_E09C32		
60:C5:A8:E0:9C:32	06	-40
TP-LINK-peter.wu		
14:75:90:1F:12:10	06	-47
rak1.1		
BC:D1:77:10:6F:B8	06	-51
RAK		
9C:21:6A:CD:46:A2	11	-51
RAK_Wireless		
A8:15:4D:27:62:1E	01	-56
tp_link_dhcp		
8C:21:0A:D9:EB:7B	11	-56

If the target router is not on the above scan list Click Cancel to return to previous page to fill out the SSID information. If the target SSID is on the scan list simply click on that list then it will automatically return to the previous page and automatically fill in the target SSID, shown as below:

●●●●○ 中国联通 下午3:42

SSID: GET

PSK:

User Name:

Password:

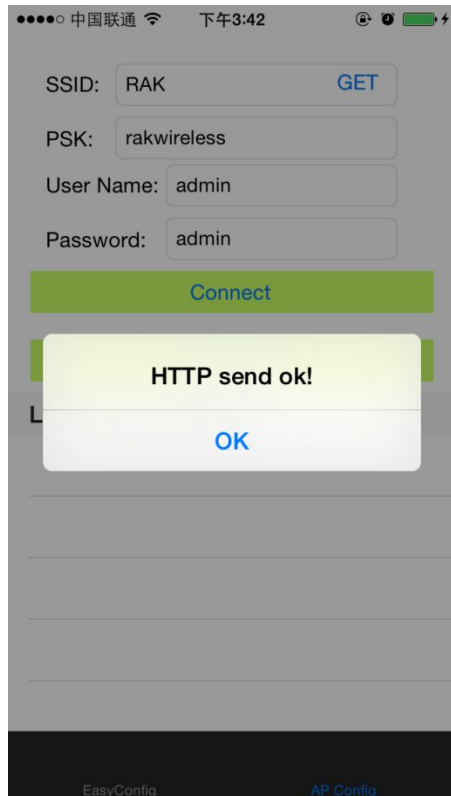
Connect

LocalScan

Local Device Num: 0

EasyConfig AP Config

Fill in the target router password (leave blank if no password is set), and the user name and password, then click Connect button, so that the relevant parameters can be sent via HTTP to module, App has prompted message if the module successfully received data, shown as below:



After the above configuration, set Wi-Fi to join the same router in which the module has joined. Then click LocalScan button to scan local LAN Wi-Fi modules to check whether the module has successfully joined the router. If module is successfully discovered, the following list will display:

SSID: [GET](#)

PSK:

User Name:

Password:

[Connect](#)

[LocalScan](#)

Local Device Num: 5

group name: RAK415
ip: 192.168.2.131
mac: 60:C5:A8:60:5A:A5
rssi: -59

module name: RAK415
group name: RAK415
ip: 192.168.2.120
mac: 60:C5:A8:60:5C:09
rssi: -57