

EasyConfigDemo Instruction

RAK WIRELESS

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Content

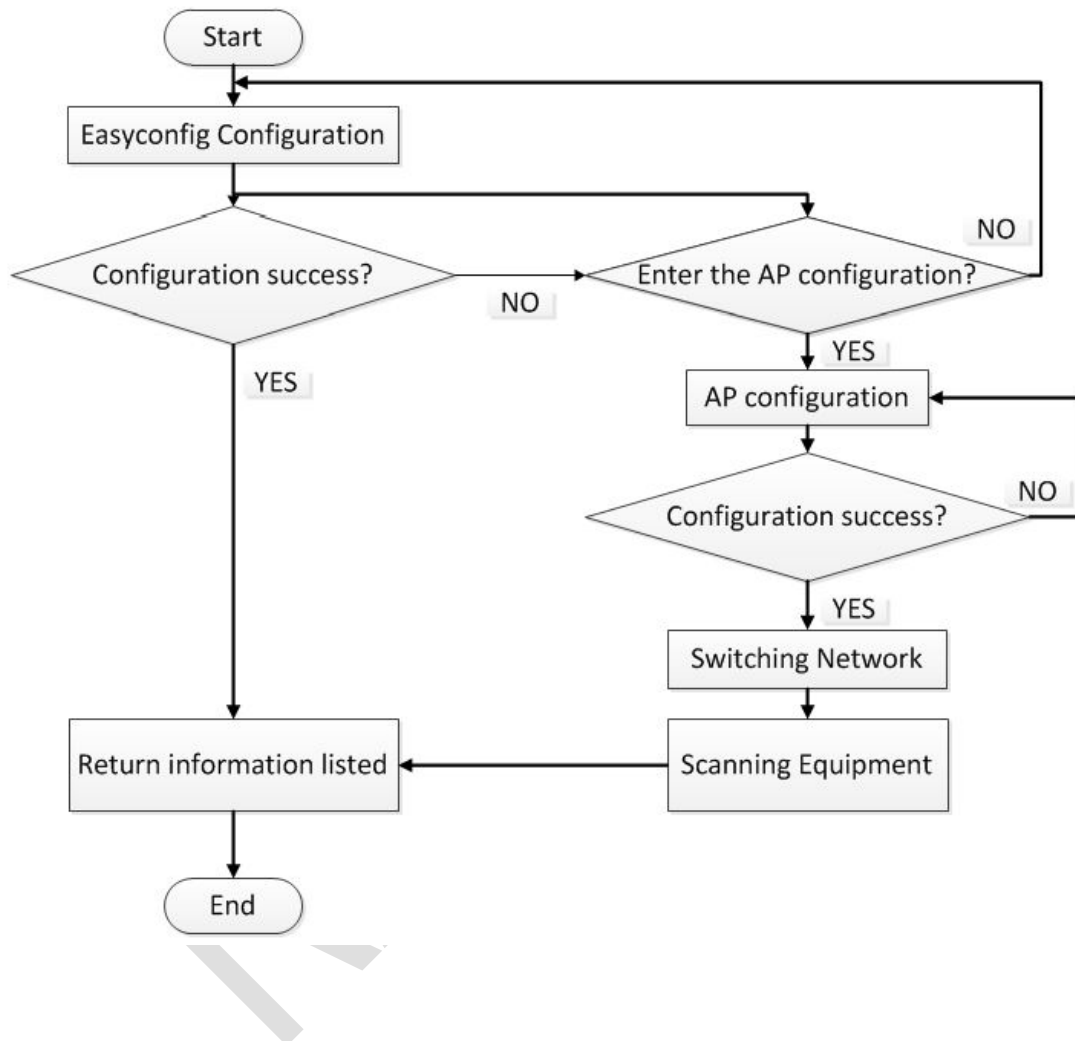
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1 Overview

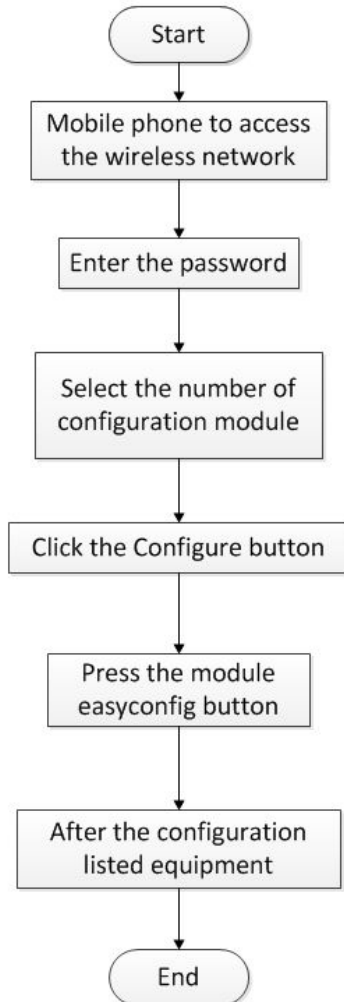
Easyconfigdemo demonstrates how to configure RAK Wi-Fi module to get connected to network. It include the easy-config and AP configuration.

Demo program shows the overall design process as below:

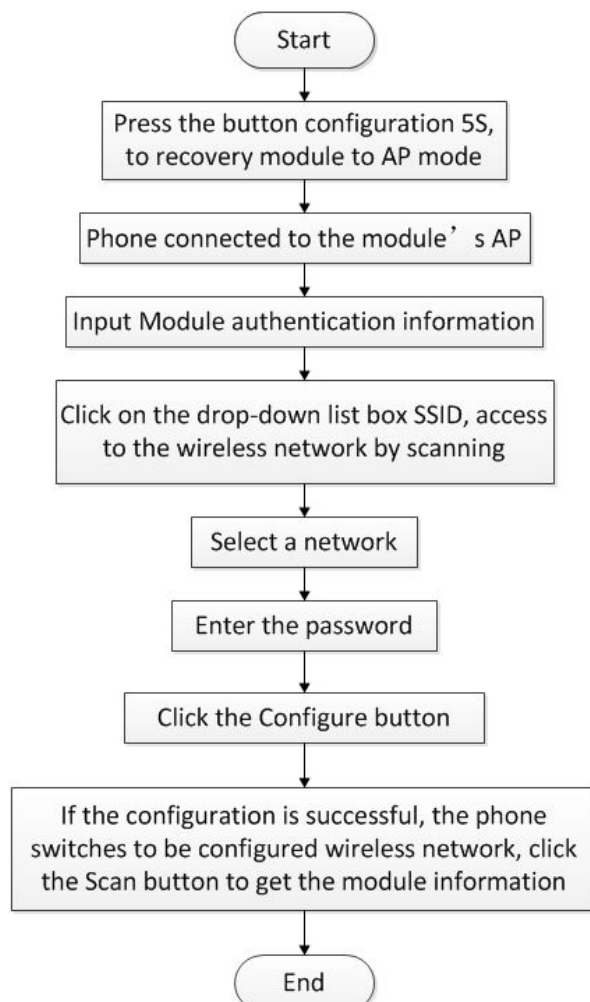


2 Operation Process

The below diagrams show the basic process of easyconfig and AP configuration:



Easyconfig operation process



AP configuration operation process

3 Migration Instruction

3.1 Easyconfig Migration Instructions

Mainly resources that Easyconfig configuration will use: libaes.so, EasySdk.jar, EasyDemo.java,

timeout.java and layout related documents. For details, refer to the followings:

Libaes.so and EasySdk.jar are the relevant library files of easyconfig configuration.

EasyDemo.java demonstrates specific examples of how to use easyconfig configuration.

timeout.java prompts configuration timeout when easyconfig is configured overtime.

1. Put the repository libaes.so and EasySdk.jar into libs folder. As shown below:



Create a package, and the package name must be yhq.jad.easydemo (because libaes.so specified a package name). Please refer to EasyDemo.java and timeout.java to write codes or directly call them.

The main interfaces from EasyDemo.java:

- 1) `private EasySdk sdk=new EasySdk();`//define a class object, used to call the relevant interface functions from EasySdk.jar
- 2) `sdk.Start(psk_data, len);`//start configuration
- 3) `sdk.Stop();` //stop configuration
- 4) `recv_data=sdk.chek_data();`//return information received after successful configuration

For details, please refer to demo program.

3.2 AP Migration Instructions

apconfig.java, WLANAPI.java, RAKInfo.java, RAK415_Scan_Config.jar are mainly used for AP configuration.

WLANAPI.java gets all kinds of mobile phone network status and network connection information. For example: IP address, MAC address, wireless network name, subnet mask, gateway, etc.

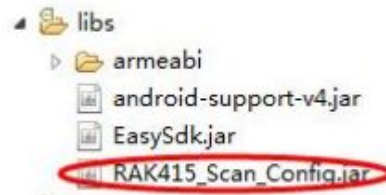
RAK415_Scan_Config.jar is used for phone to scan module IP, MAC information in the same network.

RAKInfo.java is used to parse the data returned after phone sends broadcast scan. Data section is as below:

Module name + Group name + IP + MAC + Signal strength				
16B	16B	4B	6B	1B

apconfig.java demonstrates specific examples of how to use AP configuration and how to wirelessly scan module.

1. Put the RAK415_Scan_Config.jar into libs folder. As shown below:



2. Reference WLANAPI.java RAKInfo.java resource files and refer to apconfig.java to write codes. The main interfaces of apconfig.java are as follows:

GetHttps(String http,String body,String basic,String way)// By HTTP request to realize: Get a list of network that module has scanned; 2) configuration module; 3).reset module.

For specific sending content, please refer to demo program

1) `RAK415Info=RAK415_Scan_Config.Scan(BoardCastIP);`//Scan RAK415 module, return module information scanned.

For details, please refer to demo program.

4 Revision History

Version	Modification	Date
V1.0	Initial draft	2014-12-26

RAK V1.0