HOW TO INSTALL WebUI and RT2860

In AutoInstall directory have four files: install.sh, RT2860.tgz, WebUI.tgz and WPA_Supplicant.tgz.

install.sh: It is a script that can install the Web Server and RT2860 STA Driver fully automatic.

RT2860.tgz: Ralink Wireless STA Driver for USB.

WebUI.tgz: Ralink provides a User Interface to operate Ralink STA Driver on Web Browser. The WebUI.tgz includes Boa Web Server source code, Html file and Nvram. When installed Web Server, you can operate the Wireless STA through the Browse, ex: IE. Nvram stores the information of profile.

WPA_Supplicant.tgz: WPA Supplicant supports WPA, WPA2 and 802.1 x security modes. If security mode is WPA, WPA2 or 802.1x that the Boa Web Server will use WPA Supplicant to connect AP otherwise uses RT2860 Driver.

There are two methods to install Web Sever and RT2860 STA Driver: auto-install and manual install.

Auto Install

Usage:

$cd AutoInstall

$./install.sh

The install.sh executes the following steps to install RT2860 STA Driver and Boa Web Server.

1. Input the value of install directory, IP address and port number.

2. Copy RT2860.tgz, WebUI.tgz and WPA_Supplicant.tgz into install directory and uncompress them.

3. Compile RT2860, Web Server and WPA_Supplicant.

4. Copy boa.conf, wpa_supplicant and wpa_cli into install_direcory/etc/boa

5. Copy RT2860STA.dat into install_directory/etc/Wireless/RT2860STA.

6. Execute Boa Web Server

7. Insert and up RT2860 module.

8. Create a run.sh that restarts the WebUI by user easier.

9. Start Browser.

Manual intall

Default Directory: /home/ralink

WebUI

1. Copy and uncompress WebUI.tgz into default directory.

   $cp WebUI.tgz   /home/ralink

   $cd /home/ralink

   $tar xzvf WebUI.tgz

   $ls

   You will see the following file and directory.

   boa   boa.conf   httpd   nvram

2. Create "etc/boa" directory and move the boa.conf to etc/boa

   $mkdir /etc/boa

   $mv boa.conf /etc/boa

3. In boa.conf, have some configure need to know:

   DocumentRoot: The root directory of the HTML documents. Default value is /home/ralink/WebUI/httpd.

   Port: The port Boa runs on. The default port for http servers is 80. If it is less than 1024, the server must be started as root.

4. Compile nvram

   $cd /home/ralink/WebUI/nvram

   $make

   Note: If nvram can't make finish complete, please install the correct development version in user space.

5. Compile and execute Boa source code

$cd /home/ralink/WebUI/boa

$make

$./boa

You can use "./boa –help" to get more information for usage.

./boa [-c serverroot] [-p portnumber] [-u documentroot]

serverroot: a file path of boa.conf that specified on the command line. Default path is /etc/boa.

portnumber: port number of boa runs on.

documentroot: the root directory of HTML documents.

RT2860

1. Copy and uncompress RT2860.tgz into default directory.

   $cp RT2860.tgz   /home/ralink

   $cd /home/ralink

   $tar xzvf RT2860.tgz

2. Compile RT2860

   $cd /home/ralink/RT2860

   $make

3. Insert and up RT2860 module

   $cd os/linux

   Kernel version is 2.4

   　　$insmod rt2860sta.ko

   　　$ifconfig ra0 up

   Kernel version is 2.6

   　　$insmod rt2860sta.ko

   　　$ifconfig ra0 up

WPA_Supplicant

1. Copy and uncompress WPA_Supplicant.tgz into default directory.

```
$cp WPA_Supplicant.tgz   /home/ralink

$cd /home/ralink

$tar xzvf WPA_Supplicant.tgz
```

2. Compile WPA_Supplicant

```
$cd /home/ralink/WPA_Supplicant

$make
```

3. Copy wpa_supplicant and wpa_cli into serverroot path, default path /etc/boa.

```
$cp wpa_supplicant /etc/boa/

$cp wpa_cli /etc/boa/
```

If security mode is WPA, WPA2 or 802.1x, a wpa_supplicant.conf will be create and put on /etc/boa/ directory. The wpa_supplicant.conf recodes security information, ex: Ssid or eap etc.

4. If you want to connect WPA, WPA2 or 802.1x by manual, execute the following instruction.

```
$vi wpa_supplicant.conf

  ap_scan=1

$/etc/boa/wpa_supplicant -ira0 –c/etc/boa/wpa_supplicant.conf -Dralink –d
```

Start Browser

1. Start Browser, ex: IE or FireFox.

2. Input the ipaddr (http://ipaddr[:PORT]/Sta/index.html) and connect to.