Quick Start Guide for DD-WRT Firmware

Version 1.0

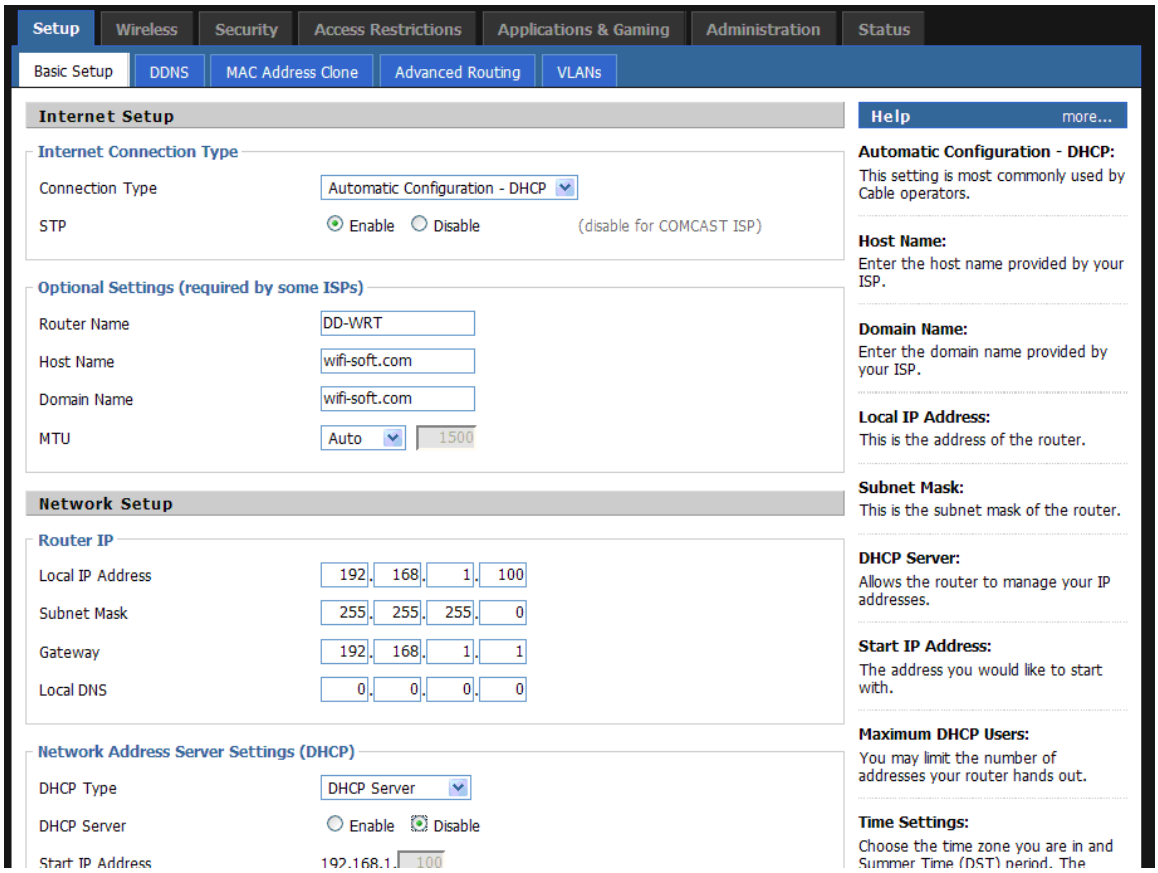
Purpose of this document

1. This document should be used in conjunction with DD-WRT guide for configuring your DD-WRT firmware in WiFiLAN. Please refer to WiFiLAN administrator guide and DD-WRT guide for detail documentation
2. It assumes that the user has basic knowledge of networking including configuring subnet mask, RADIUS setting, default gateway and DNS configuration
3. In order to configure DD-WRT you will need a static IP address, subnet mask, default gateway and DNS information given to you by your Internet Service Provider. Please keep this information handy while setting up your gateway
4. Configuring WiFiLAN you will need the WAN MAC address, RADIUS secret, serial number (if any) and public IP address of your DD-WRT gateway
5. Finally, you need an active WiFiLAN account. Please contact Wifi-soft's sales to create your WiFiLAN account

DD-WRT Setup

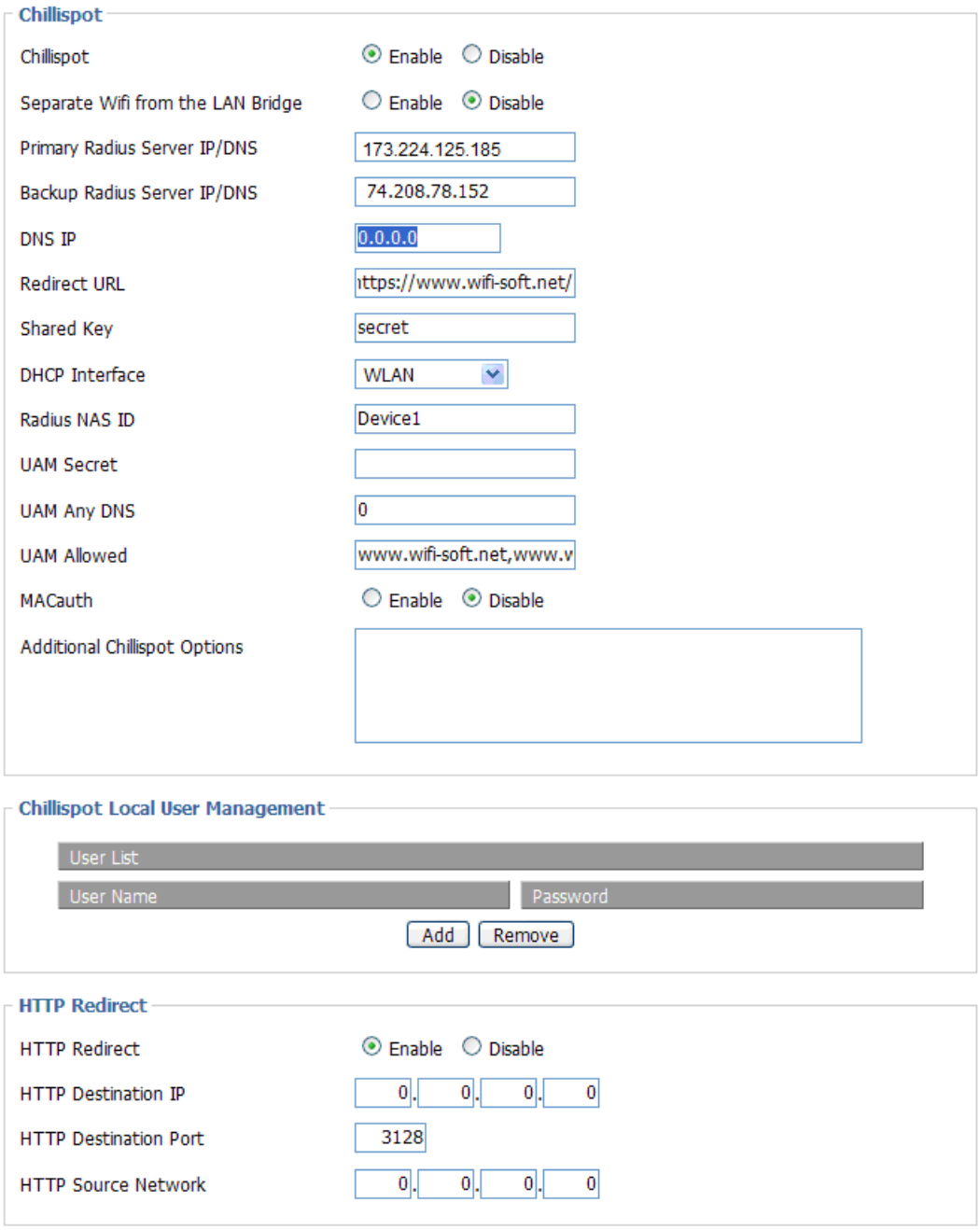
We have assumed that you have properly connected your DD-WRT based gateway a broadband connection that has a static or dynamic public IP address. Additionally, your DD-WRT gateway admin interface is accessible either via the LAN interface or via the public WAN interface as shown in the figure below.

Log into DD-WRT and then go to Setup -> Basic Setup screen. Enter the details in network setup. The connection type should be configured correctly for your Internet connection. Please make sure that you disable the DHCP server under Network Address Server Setting section on this page. We will be using the DHCP server provided by Chillispot. (see later)



Next, go to Administration tab and click on the Hotspot sub-tab. You need to enable Chillispot on this page. Chillispot is a software program that redirects the unauthenticated users to the login page. This program should be running on the router for the login page to work correctly.

Next you need to configure Chillispot with the Radius server settings as shown below:



If you need to separate the LAN portion of the router from WLAN, enable the “Separate Wifi from LAN bridge” option.

Enter the primary and secondary Radius server IP addresses as shown.

Primary server: 173.224.125.185
Secondary server: 74.208.78.152

DNS IP should be the IP address of the ISP’s DNS server

Redirect URL should be URL of the login page. Please contact Wifi-soft to design custom portal page designs for your hotspots.

If the portal/login page is hosted on your server, you will also need to include your web server in the UAM allowed list

Shared key is the secret key between the Radius server and the router. It should match the one configured in the router.

If you want to enable login page redirection for WLAN (wireless) only, then select WLAN from the drop-down list for DHCP Interface.

Enter the NAS Id for the router. NAS Id is the friendly name used to identify the router.

Leave the UAM secret and DNS settings as shown.

Under UAM allowed, enter the following values (comma separated):

www.wifi-soft.net,www.wifi-soft.com,74.208.78.152,173.224.125.185

Next enable HTTP Redirect option and leave the default setting.

Save the above settings.

If chillispot is configured correctly, then you should get an IP address in the following subnet when you connect to WLAN:

192.168.182.X

Troubleshooting DD-WRT:

If you enable SSH (secure shell) access to DD-WRT, then you should be able to directly log into the firmware installed on the router. The username and password is same as the one for your admin page. Please make sure that you connect to the router using the wired port.

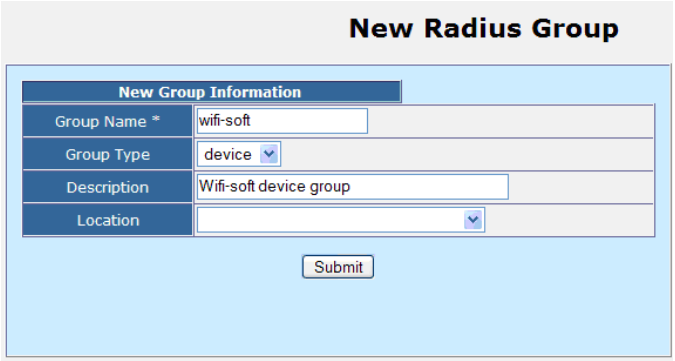
To determine whether Chillispot is working correctly, please execute the ps command. The login page will only work if “chilli” process is running in the router and chilli.conf file is created in the /etc directory.

If the ‘chilli’ process is not running, then you need to verify your chillispot configuration once again.

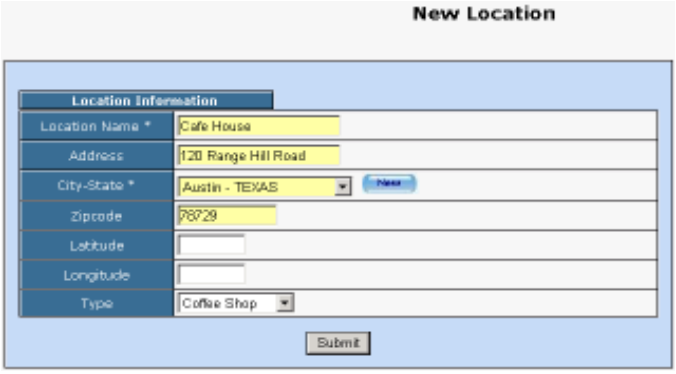
WiFiLAN Setup

1. You need to log into WiFiLAN by pointing your browser to https://www.wifi-soft.net/wifilan/

2. Before you add your first gateway in RADIUS section, you need to create a device group to organize your gateways. To create a new device group, click on the RADIUS menu option and then on the Groups submenu.

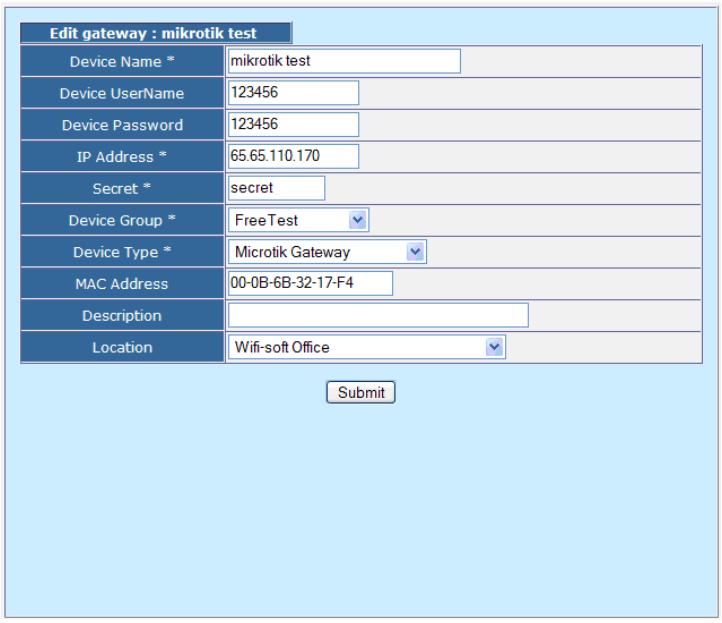


3. Next you can a location entry for your new hotspot location. Although this step is optional, we highly recommend that you create a location entry since it helps you organize your hotspot locations and generate various location specific reports. To create a new location entry, click on RADIUS menu and then on the Location submenu. You need to click on New Location tab to enter a new location.



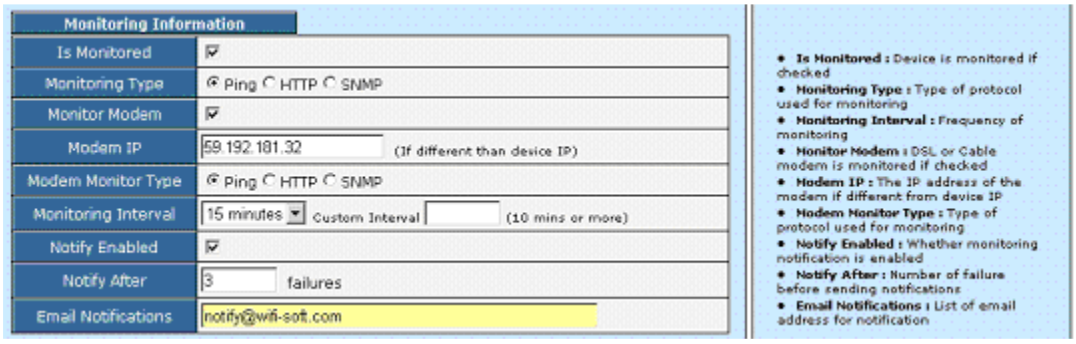
4. Once the location entry for your hotspot is created, you may proceed to add your first gateway entry. To add a new gateway, click on the RADIUS menu and then on the Gateway submenu. Click on the New Gateway tab to add a new gateway.

The description of each parameter is as follows:



- Device Name: A friendly name for the gateway
- UserName & Password: Needed for gateways that fetch their configuration from RADIUS server. Optional
- IP Address: Public IP of the gateway
- Secret: The RADIUS secret configured in the gateway
- Device Group: The device group that we created in the previous step
- Device Type: Type of Device
- MAC Address: The MAC address of the WAN port
- Location: The location where the gateway is installed

You may add more information about the gateway in the Network section. Additionally, you can also configure the gateway for 24x7 monitoring by specifying the monitoring parameters as shown below:



That's it. You newly configured DD-WRT gateway is ready for RADIUS authentication. You may configure the login and welcome URL for your gateway so that user can enter username and password that will be sent to our RADIUS server for authentication.

Please make sure that you use username@realm as username on your login pages so that it would be easier for you to support roaming in the future.

These instructions will help you get started with DD-WRT compatible routers. For advanced configuration, please refer to DD-WRT and Chillispot documentation.