

# Quick Start Guide for CRADLEPOINT



**Version 1.0**  
**Copyright © 2011, Wifi-Soft Solutions**  
**All rights reserved.**

## Purpose of this document

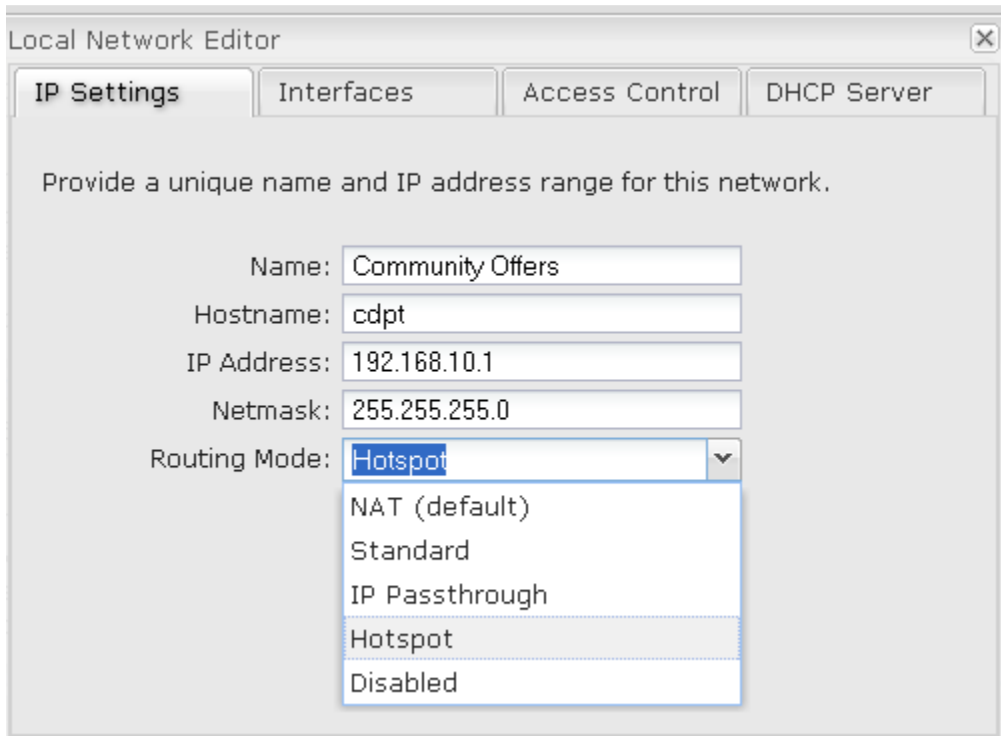
1. This document should be used in conjunction with CRADLEPOINT guide for configuring your CRADLEPOINT gateway in WiFiLAN. Please refer to Wi-FiLAN administrator guide and CRADLEPOINT guide for detail documentation
2. It assumes that the user has basic knowledge of networking including configuring subnet mask, RADIUS setting, default gateway and DNS configuration
3. In order to configure CRADLEPOINT 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 Wi-FiLAN you will need the WAN MAC address, RADIUS secret and public IP address of your CRADLEPOINT gateway
5. Finally, you need an active Wi-FiLAN account. Please contact Wifi-soft's sales to create your Wi-FiLAN account

## CRADLEPOINT Setup

We have assumed that you have properly connected your CRADLEPOINT gateway to a broadband connection or a 3/4G connection. Please log into the Cradlepoint administration interface to configure the device to function as a hotspot.

**IMPORTANT: Please make sure that you are using firmware version 3.4.1 or higher**

Under cradlepoint administration, go to Guest LAN section as shown below. To navigate, go to Network Setting -> WiFi & Local Network -> Guest LAN

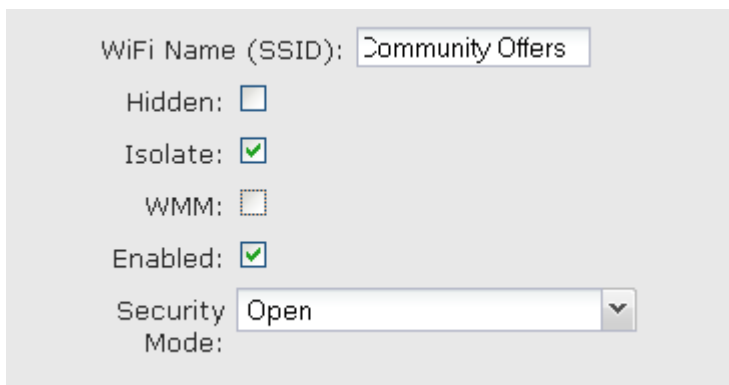


The screenshot shows the 'Local Network Editor' window with the 'IP Settings' tab selected. The interface includes the following fields and options:

- Name: Community Offers
- Hostname: cdpt
- IP Address: 192.168.10.1
- Netmask: 255.255.255.0
- Routing Mode: Hotspot (selected from a dropdown menu that also includes NAT (default), Standard, IP Passthrough, and Disabled)

Change the Routing model to Hotspot. Give the name for your hotspot and define the IP range with subnet mask for your guest network.

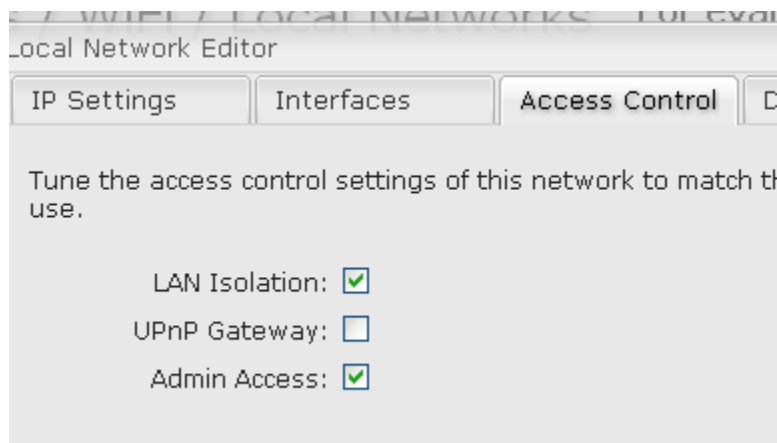
For the network side, also change the SSID to the one you desire and enable client isolation. Make sure that the WiFi network is in enabled state.



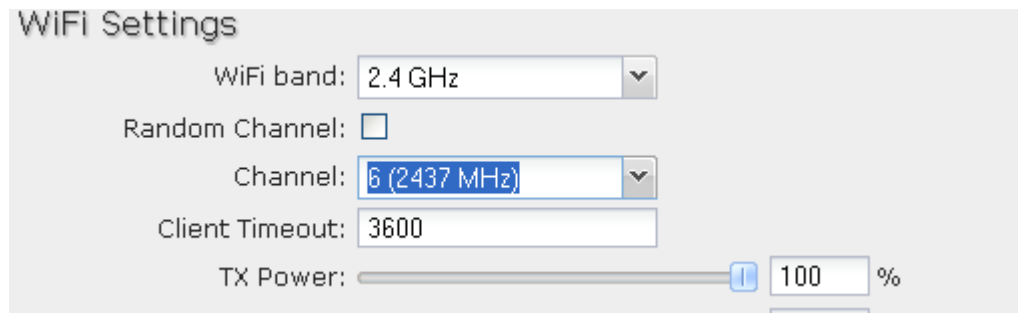
The screenshot shows the WiFi configuration interface with the following settings:

- WiFi Name (SSID): Community Offers
- Hidden:
- Isolate:
- WMM:
- Enabled:
- Security Mode: Open (selected from a dropdown menu)

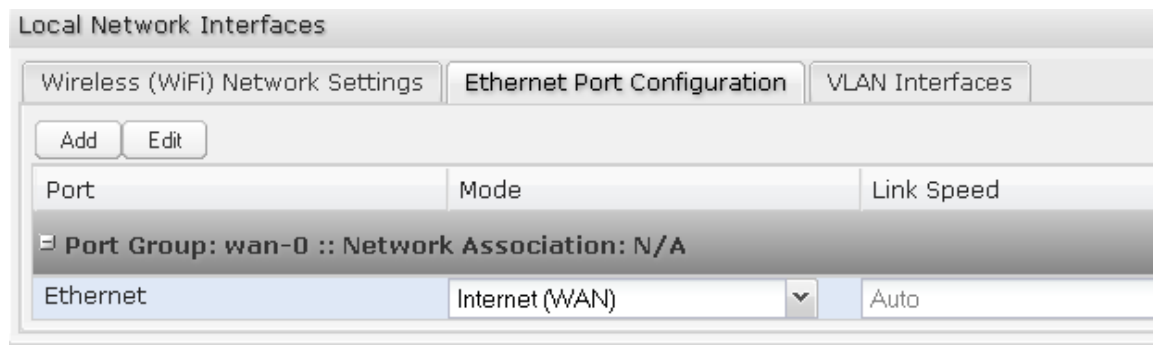
On the Access Control tab, please select LAN isolation and admin access as shown.



Lastly, under advanced settings, please select the WiFi channel and other WiFi settings as per your requirements.



For CBR-400, Go to the Ethernet Port Configuration settings as shown.



Change the Ethernet port to WAN. Please note that you may need to disconnect any Ethernet connection to be able to change this setting.

Next, go the main menu and select System Settings and Managed Services.

If you want Wi-FiLAN to keep track of the changes in the IP address of the unit, please select the Enable SNMP option as shown below. It is recommended to skip this section for initial (trial) setup. Once the basic settings are in place, the administrator can enable these settings.

The image shows a web configuration interface with two main sections. The top section is titled "WiPipe Central Configuration" and contains three items: "Enable WiPipe Central Services:" with an unchecked checkbox, "Ethernet Communication Only:" with an unchecked checkbox, and "Registration URL:" followed by a text input field. The bottom section is titled "SNMP Configuration" and contains several items: "Enable SNMP:" with a checked checkbox, "Enable SNMP on LAN:" with a checked checkbox, "LAN port #:" with a text input field containing "161", "Enable SNMP on WAN:" with a checked checkbox, "WAN port #:" with a text input field containing "161", three radio button options for "SNMPv1:", "SNMPv2c:", and "SNMPv3:" (with "SNMPv2c:" selected), and two text input fields for "Get community string:" and "Set community string:", both containing masked characters (dots).

For enable SNMP, check the Enable SNMP tab. The port number is 161. Enter the community string to desired value.

Go to Remote management section, and enable WAN pings, remote web administration and requires HTTPS connection. Use port 443 or 8443 for remote access.

## System Settings / Administration

Router Security   System Clock   Local Management   **Remote Management**

Allow WAN pings:

Allow Remote Web Administration:

Require HTTPS Connection:

Enable SSH Server:

Technical Support Access:

Next you need to configure the DNS settings for your router. You can use the ones provided by your ISP or use the opensns ones as shown below.

**DNS Settings**

Automatic Config:  ▼

Primary DNS:

Secondary DNS:

Lastly, you need to go to System Settings -> Hotspot Settings section.

In the Hotspot Mode, select RADIUS/UAM method.

The image shows two screenshots of a configuration interface. The top screenshot is titled "Hotspot Settings" and includes a dropdown menu for "Hotspot Mode" set to "RADIUS/UAM", a "Local IP Network" field set to "Guest LAN" with a "Configure" link, checkboxes for "Allow Service on 3G/4G modems" and "Redirect HTTPS Requests", and a "Hotspot/UAM Authentication Port" slider set to 8080. The bottom screenshot is titled "RADIUS Settings" and includes input fields for "Server Address 1" (173.224.125.185), "Server Address 2" (74.208.78.152), "Authentication Port" (1812), and "Accounting Port" (1813). It also has "Shared Secret" and "Confirm Secret" fields with masked characters. At the bottom, there are three radio button options for "Redirection": "Redirect to the UAM Server" (selected), "Redirect to the URL that the user intends to visit.", and "Redirect to the following URL".

Change the UAM port to 8080.

Enter the RADIUS server settings as shown above.

RADIUS Server 1	173.224.125.185
RADIUS Server 2	74.208.78.152
Authentication Port	1812
Accounting Port	1813
Shared Secret	Any password that matches the one configured in Wi-FiLAN
Redirection	Select option Redirect to the UAM server.

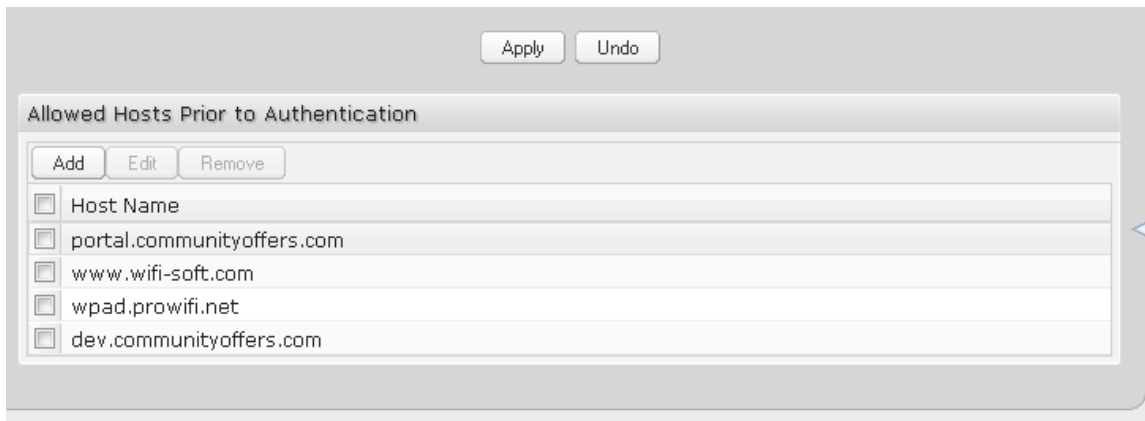
Under UAM settings, enter the Login URL given to you by WiFi-Soft. The login page can be hosted on an external web server. Enter the Gateway/NAS ID.

The image shows a screenshot of the "UAM Settings" configuration screen. It includes a "Login URL" field with the value "http://cp.wifi-soft.com/login", "Shared Secret" and "Confirm Secret" fields, and a "NAS/Gateway ID" field with the value "CO-TX-SGS02".



IMPORTANT: Please make sure that the UAM secret is blank. No whitespaces allowed.

Lastly, you need to configure the passthrough or wall garden links. These URLs will be accessible to the user before authentication.



You need to add at least the following URLs to the passthrough/wall garden section –

[cp.wifi-soft.com](http://cp.wifi-soft.com)  
[www.wifi-soft.com](http://www.wifi-soft.com)  
[www.wifi-soft.net](http://www.wifi-soft.net)  
[www.yourcompany.com](http://www.yourcompany.com)

Next connect your Cradlepoint node to the Internet and get your laptop and connect to the Cradlepoint network wirelessly.

If everything works well, you will receive an IP address from the Cradlepoint and should see the login URL in your browser.

## 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.

### New Radius Group

New Group Information	
Group Name *	wifi-soft
Group Type	device
Description	Wifi-soft device group
Location	

- 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.

### New Location

Location Information	
Location Name *	Cafe House
Address	120 Range Hill Road
City-State *	Austin - TEXAS <input type="button" value="Near"/>
Zipcode	78729
Latitude	
Longitude	
Type	Coffee Shop

- 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:

Gateway Information	
Device Type *	Cradlepoint-CBR400
Hotspot Name *	Hotel Radisson
IP Address *	49.38.131.84
Secret *	secret
MAC Address	00-03-92-E8-8A-DE
Description	hotel radisson hotspot
Location	Hotel Radisson

- Device Name: A friendly name for the gateway
- UserName & Password: Leave them blank (not used for Cradlepoint)
- 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

That's it. You newly configured CRADLEPOINT gateway is ready for RADIUS 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.

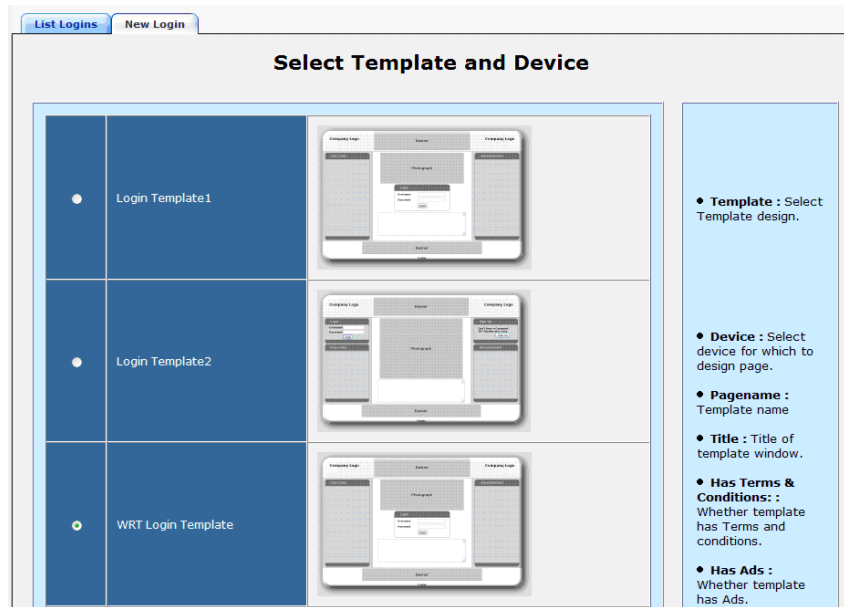
## Designing CRADLEPOINT login pages

WiFiLAN makes it easy for administrators to design CRADLEPOINT compatible login pages using the click-and-customize portals. These login pages are hosted on wifi-soft's web server and administrators can configured the URLs under the portal configuration. Please note that the wifi-soft's servers should be listed in the UAM allowed section for the pages to work correctly.

You can use the link shown above for testing or create a new template based login page as described below. The test link is

<http://cp.wifi-soft.com/login>

To create a CRADLEPOINT compatible login page, click on the Portal menu and then on Authentication -> Login submenu. Next click on the New Login tab to create a new login page.



The third template (WRT login template) is used to create CRADLEPOINT login page. For further instructions for creating login page, please refer to WiFiLAN administration guide.

Once the login page is customized and the changes are saved, WiFiLAN will generate a URL for the page. For example:

[https://www.wifi-soft.net/portal/chilli\\_template1.php?pid=43894391112](https://www.wifi-soft.net/portal/chilli_template1.php?pid=43894391112)

This URL can be directly configured in the Chillispot configuration of your router.

These instructions will help you get started with CRADLEPOINT compatible routers. For advanced configuration, please contact Wifi-soft's support team.