

# Captive Portal

## *Functional Overview*

The Captive Portal solution provided by CradlePoint routers allows businesses the ability to provide their customers with a public WiFi hotspot with access controls. The controls can be as simple as requiring acceptance of a Terms of Service (ToS) agreement. Advanced features can control and monitor usage, require login, direct users to specific web pages, provide revenue through services fees or paid advertising and more.

### **OVERVIEW**

- Two Modes: Simple (router only) and RADIUS authentication (hosted server).
- Captive portal allows the admin / owner of the router to capture all associating clients attempting to access the web in a limited service “walled garden”.
- Only specified web access is allowed until the client accepts either Terms of Service (ToS) or meets other authentication requirements.
- After the authentication requirements are met, the client can then surf normally outside the walled garden.
- This feature is found at System Settings -> Hotspot Services
- Available with the following CradlePoint Routers: MBR1400

### **KEY FEATURES**

- Require ToS acceptance to use WiFi hotspot if desired
- URL redirect to administer-defined URL on authentication if desired
- Disable WiFi hotspot service when on 3G/4G failover service if desired
- The ability to utilize 3rd party AAA RADIUS hotspot services
  - Customizable splash pages
  - User login credential checking
  - Hotspot billing services (credit cards, vouchers, SMS authentication, etc)
  - Revenue sharing
  - Advertising revenue
  - Transaction reports
  - User search and usage information
  - Custom reporting
  - And much more offered by 3rd party services

## Mode 1: Simple Captive Portal Mode – Terms of Service (ToS):

Simple mode redirects any associated clients attempting to surf the web to a CradlePoint branded Terms of Service page. From here, the client either accepts the owner / admin defined terms of service – allowing them to surf normally outside the walled garden - or the client does not accept and remains ‘captive’ in the walled garden with internet access denied except for owner specified URL locations. (see screenshot below)

### System Settings / Hotspot Services

#### Hotspot Settings

Enable Hotspot Services:

Hotspot Mode:  ▼

Allow Service on 3G/4G modems: ☐

#### Simple Mode Settings

☐ Display Terms of Use. After acceptance, go to the URL the user intended to visit.  
☒ Display Terms of Use. After acceptance, redirect to an administrator defined URL.  
☐ No Terms of Use is displayed. Only redirect to a administrator defined URL.

Redirect URL:

Terms of Use: 

This is the test showing the "Simple" mode HotSpot services. The administrator can input their own terms of service in this box to setup their own captive portal. Once the user accepts the ToS they may be redirected to an administrator-defied URL or to the URL they initially intended to visit.

Session Timeout:  Mins  
 Idle Timeout:  Mins

<input type="checkbox"/>	Host / Domain Name
<input type="checkbox"/>	

## Mode 2: Radius Authentication Captive Portal:

The captive portal Radius mode allows the admin/owner to configure a third-party RADIUS server with customizable splash pages and provides a standard UAM (Universal Access Method) form and can account for all clients associating. Clients in this case would be required to authenticate before accessing the web. The client(s) will be more or less unaware of the existence of the RADIUS server beyond entering credentials (rather than a simple acceptance of Terms of Service) to gain access to the Internet.

The radius mode allows for use of either an 'in-house' RADIUS hosted server, set up, and configured by the admin/owner or a 'hosted' RADIUS server set up and configured by a third party but customized by the admin/owner for use with the CradlePoint captive portal feature.

Example: Hosted RADIUS server solutions include [www.hotspotsystem.com](http://www.hotspotsystem.com).

NOTE: The captive portal feature does not remember clients. Each time a client's session is terminated for any reason re-authentication will be required before the client can surf again. (see screenshot on next page)

## Additional Captive Portal Behaviors:

- Captive Portal is available only on the Guest SSID which has no administrative access.
- Non-ToS redirect. The admin can allow all associated clients to surf without a ToS/Auth but first the clients are redirected to an admin-specified URL.
- Users on the guest SSID with captive portal enabled have no visibility to the LAN/WLAN machines including the router configuration pages
- Admin can specify a timeout/time limit for clients using the guest SSID with Captive Portal. There are 2 timeouts, a session timeout and an idle timeout.
- Admin can either redirect the client to their original request after they have authenticated or to a specified web page.
- Admin may add, change, or remove available services/URLs within the Walled Garden.
- Only HTTP requests from un-authenticated users are re-directed initially to the Captive Portal login page. HTTPS NOT supported on this captive portal version.
- User on the Guest SSID with captive portal enabled will be using the router's DNS.
- No sub-link bypass of the Captive Portal's walled garden restrictions.

NOTE: CradlePoint does not offer the 3rd Party AAA RADIUS authentication service and additional fees may apply, though free services are available.

## System Settings / Hotspot Services

### Hotspot Settings

Enable Hotspot Services:

Hotspot Mode:  ▼

Allow Service on 3G/4G modems: ☐

### RADIUS Settings

Server Address:

Authentication Port:

Accounting Port:

Shared Secret:

Confirm Secret:

Redirection: ☒ Redirect to the UAM Server  
☐ Redirect to the URL that the user intends to visit.  
☐ Redirect to the following URL

Session Timeout:  Mins

Idle Timeout:  Mins

### UAM Settings

Login URL:

Shared Secret:

Confirm Secret:

NAS/Gateway ID:

☐ Host / Domain Name