



Article ID: 5044

Configuring Captive Portal on the WAP351 and WAP371 Access Points

Objective

Captive Portal allows you to require that users sign in to your wireless network using their web browser before accessing network resources or the Internet. This can be useful if you would like to have users agree to terms of use, or you would like to create user accounts for your wireless network.

The objective of this document is to show you how to configure captive portal on the WAP351 and WAP371.

Note: This document assumes that you have previously configured a VAP. For additional information on configuring a VAP, refer to the article [Configuring a VAP on the WAP351 and WAP371 Access Points](#).

Applicable Devices

- WAP351
- WAP371

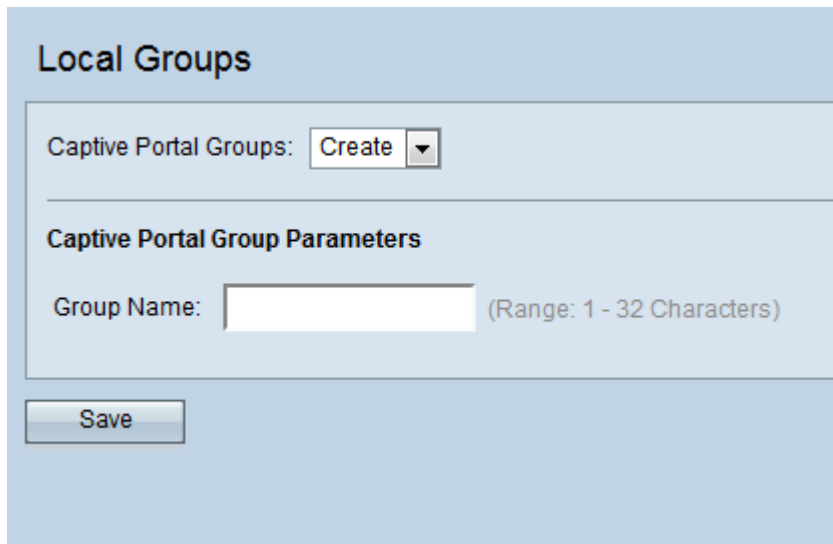
Create a Captive Portal

Create a New Local Group

In order to allow authentication through the captive portal, local user accounts must be created on the WAP351/WAP371. Each local user must then be assigned to a user group, which can then be assigned to a captive portal instance. If you do not wish to create User Accounts, skip this section and proceed to [Create a New Captive Portal Instance](#).

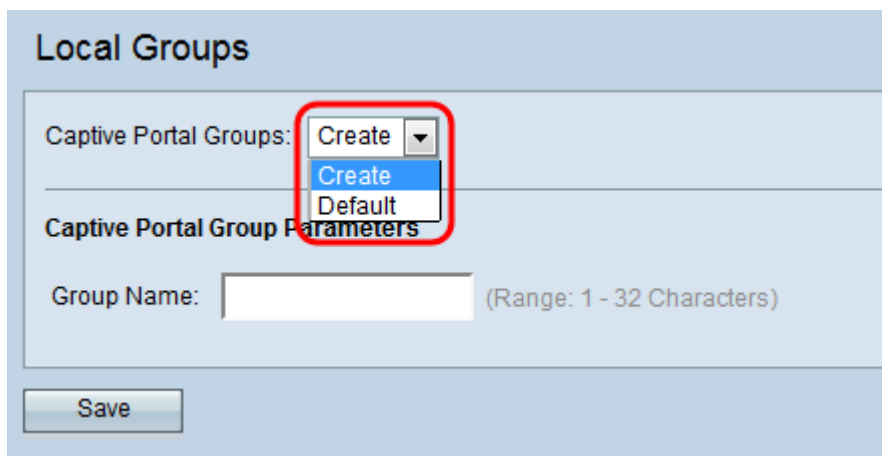
Note: Optionally, you may choose to use the Default group. The Default group is built-in and cannot be removed. If you wish to use the Default group, skip this section and proceed to [Create a New Local User](#).

Step 1. Log in to the web configuration utility and choose **Captive Portal > Local Groups**. The *Local Groups* page appears:



The screenshot shows the 'Local Groups' configuration page. At the top, there is a section labeled 'Captive Portal Groups' with a dropdown menu currently set to 'Create'. Below this is a section for 'Captive Portal Group Parameters' which includes a text input field for 'Group Name' with a note '(Range: 1 - 32 Characters)'. At the bottom of the form is a 'Save' button.

Step 2. To create a new group, select **Create** from the *Captive Portal Groups* drop-down box.



This screenshot is identical to the previous one, but the 'Captive Portal Groups' dropdown menu is open, showing three options: 'Create' (highlighted in blue), 'Create', and 'Default'. A red rectangular box highlights the entire dropdown menu area.

Step 3. Enter the desired group name in the *Group Name* field.

Local Groups

Captive Portal Groups: ▼

Captive Portal Group Parameters

Group Name: (Range: 1 - 32 Characters)

Step 4. Click **Save**.

Create a New Local User

Users must be created in order to be authenticated and assigned to a group within the Captive Portal. Up to 128 authorized users can be created within the local database. If more than 128 users are desired, a RADIUS server must be used.

Step 1. Navigate to **Captive Portal > Local Users**. The *Local Users* page appears.

Local Users

Captive Portal Users: ▼

Captive Portal User Parameters

User Name: (Range: 1 - 32 Characters)

Step 2. Enter the desired user account name in the *User Name* field.

Local Users

Captive Portal Users: ▼

Captive Portal User Parameters

User Name: (Range: 1 - 32 Characters)

Step 3. Click **Save**. The *Captive Portal User Parameters* additional fields appear:

Local Users

Captive Portal Users: ▼

Captive Portal User Parameters

User Password: (Range: 8 - 64 Alphanumeric & Special Characters)
 Show Password as Clear Text

Away Timeout: (Range: 0 - 1440 Min, Default: 60)

Group Name:

Maximum Bandwidth Upstream: (Range: 0 - 300 Mbps, Default: 0)

Maximum Bandwidth Downstream: (Range: 0 - 300 Mbps, Default: 0)

Delete User:

Step 4. Enter a password in the *User Password* field.

Captive Portal User Parameters

User Password: (Range: 8 - 64 Alphanumeric & Special Characters)
 Show Password as Clear Text

Away Timeout: (Range: 0 - 1440 Min, Default: 60)

Group Name:

Maximum Bandwidth Upstream: (Range: 0 - 300 Mbps, Default: 0)

Maximum Bandwidth Downstream: (Range: 0 - 300 Mbps, Default: 0)

Delete User:

Step 5. In the *Away Timeout* field, enter the amount of time in minutes that the user remains logged after disconnecting from the device. If the user attempts to connect to the device within this period, they will not be prompted for a password. The default value for this field is 60, and the maximum is 1440.

Captive Portal User Parameters

User Password: (Range: 8 - 64 Alphanumeric & Special Characters)
 Show Password as Clear Text

Away Timeout: (Range: 0 - 1440 Min, Default: 60)

Group Name:

Maximum Bandwidth Upstream: (Range: 0 - 300 Mbps, Default: 0)

Maximum Bandwidth Downstream: (Range: 0 - 300 Mbps, Default: 0)

Delete User:

Note: A value of 0 in this box will cause the device to use the value set in Captive Portal Instance Configuration (configured later in this guide). This may be useful to set if you wish to set all users to the same value.

Step 6. In the *Group Name* field, select the group that the user belongs to.

Captive Portal User Parameters

User Password: (Range: 8 - 64 Alphanumeric & Special Characters)
 Show Password as Clear Text

Away Timeout: (Range: 0 - 1440 Min, Default: 60)

Group Name:

Maximum Bandwidth Upstream: (Range: 0 - 300 Mbps, Default: 0)

Maximum Bandwidth Downstream: (Range: 0 - 300 Mbps, Default: 0)

Delete User:

Step 7. In the *Maximum Bandwidth Upstream* field, enter the maximum upload speed in megabits that the client will be allowed to upload at. The default value is 0 and the maximum is 300.

Captive Portal User Parameters

User Password: (Range: 8 - 64 Alphanumeric & Special Characters)
 Show Password as Clear Text

Away Timeout: (Range: 0 - 1440 Min, Default: 60)

Group Name:

Maximum Bandwidth Upstream: (Range: 0 - 300 Mbps, Default: 0)

Maximum Bandwidth Downstream: (Range: 0 - 300 Mbps, Default: 0)

Delete User:

Note: A value of 0 in this box will cause the device to use the value set in Captive Portal Instance Configuration (configured later in this guide). This may be useful to set if you wish to set all users to the same value.

Step 8. In the *Maximum Bandwidth Downstream* field, enter the maximum upload speed in megabits that the client should be allowed to upload at. The default value is 0 and the maximum is 300.

Captive Portal User Parameters

User Password: (Range: 8 - 64 Alphanumeric & Special Characters)
 Show Password as Clear Text

Away Timeout: (Range: 0 - 1440 Min, Default: 60)

Group Name:

Maximum Bandwidth Upstream: (Range: 0 - 300 Mbps, Default: 0)

Maximum Bandwidth Downstream: (Range: 0 - 300 Mbps, Default: 0)

Delete User:

Note: A value of 0 in this box will cause the device to use the value set in Captive Portal Instance Configuration (configured later in this guide). This may be useful to set if you wish to set all users to the same value.

Step 9. Click **Save**.

Create a New Captive Portal Instance

A Captive Portal Instance allows you to specify various configuration options associated with how users connect to the Captive Portal.

Step 1. Navigate to **Captive Portal > Instance Configuration**. The *Instance Configuration* screen appears:

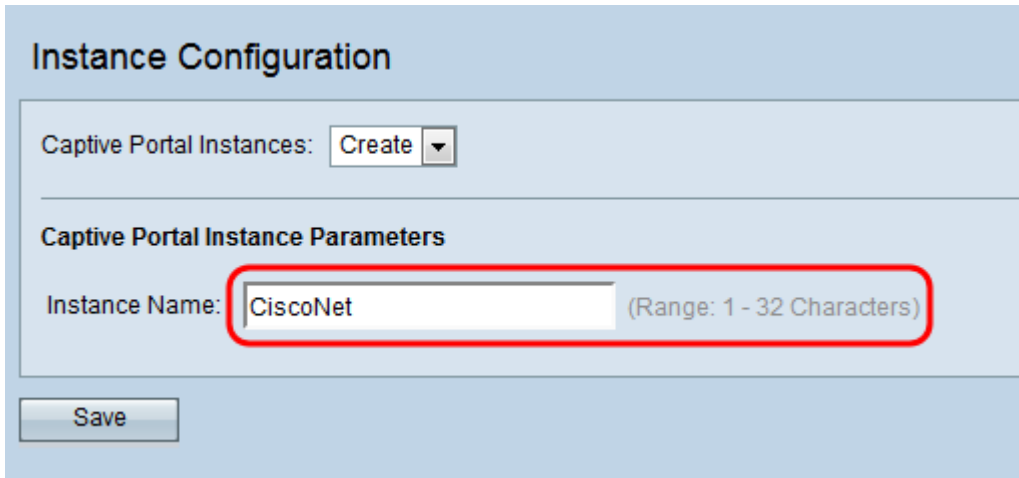
Instance Configuration

Captive Portal Instances: ▼

Captive Portal Instance Parameters

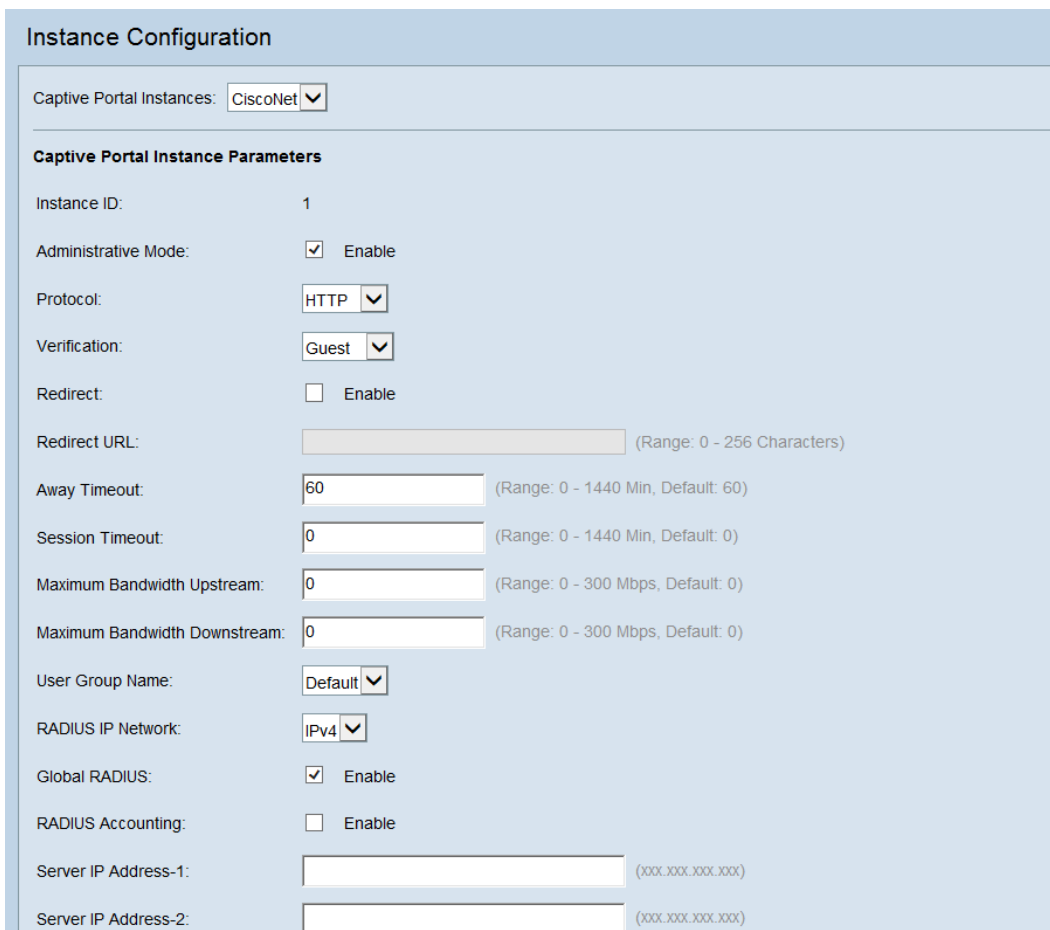
Instance Name: (Range: 1 - 32 Characters)

Step 2. Enter the desired name for the new Captive Portal Instance in the *Instance Name* field.



The screenshot shows the 'Instance Configuration' page. At the top, there is a section for 'Captive Portal Instances' with a 'Create' button. Below this is the 'Captive Portal Instance Parameters' section. The 'Instance Name' field is highlighted with a red rectangle and contains the text 'CiscoNet'. To the right of the field, it says '(Range: 1 - 32 Characters)'. At the bottom left of the configuration area, there is a 'Save' button.

Step 3. Click **Save**. The *Captive Portal Instance Parameters* additional fields appear:



The screenshot shows the 'Instance Configuration' page after clicking 'Save'. The 'Captive Portal Instances' dropdown now shows 'CiscoNet'. The 'Captive Portal Instance Parameters' section is expanded, showing the following fields:

- Instance ID: 1
- Administrative Mode: Enable
- Protocol: HTTP
- Verification: Guest
- Redirect: Enable
- Redirect URL: (Range: 0 - 256 Characters)
- Away Timeout: 60 (Range: 0 - 1440 Min, Default: 60)
- Session Timeout: 0 (Range: 0 - 1440 Min, Default: 0)
- Maximum Bandwidth Upstream: 0 (Range: 0 - 300 Mbps, Default: 0)
- Maximum Bandwidth Downstream: 0 (Range: 0 - 300 Mbps, Default: 0)
- User Group Name: Default
- RADIUS IP Network: IPv4
- Global RADIUS: Enable
- RADIUS Accounting: Enable
- Server IP Address-1: (Range: xxx.xxx.xxx.xxx)
- Server IP Address-2: (Range: xxx.xxx.xxx.xxx)

Step 4. Ensure that the *Administrative Mode* check box is selected to enable the Captive Portal instance.

Instance Configuration

Captive Portal Instances: CiscoNet ▼

Captive Portal Instance Parameters

Instance ID: 1

Administrative Mode: Enable

Protocol: HTTP ▼

Verification: Guest ▼

Redirect: Enable

Redirect URL: (Range: 0 - 256 Characters)

Away Timeout: 60 (Range: 0 - 1440 Min, Default: 60)

Session Timeout: 0 (Range: 0 - 1440 Min, Default: 0)

Maximum Bandwidth Upstream: 0 (Range: 0 - 300 Mbps, Default: 0)

Maximum Bandwidth Downstream: 0 (Range: 0 - 300 Mbps, Default: 0)

User Group Name: Default ▼

RADIUS IP Network: IPv4 ▼

Global RADIUS: Enable

RADIUS Accounting: Enable

Server IP Address-1: (xxx.xxx.xxx.xxx)

Server IP Address-2: (xxx.xxx.xxx.xxx)

Step 5. In the *Protocol* drop-down list, select the protocol you would like to use during the verification process. HTTP transmits information in plaintext, while HTTPS encrypts the data that is transmitted. HTTPS is recommended.

Instance Configuration

Captive Portal Instances: CiscoNet ▼

Captive Portal Instance Parameters

Instance ID: 1

Administrative Mode: Enable

Protocol: HTTP
HTTPS

Verification: Guest ▼

Redirect: Enable

Redirect URL: (Range: 0 - 256 Characters)

Away Timeout: (Range: 0 - 1440 Min, Default: 60)

Session Timeout: (Range: 0 - 1440 Min, Default: 0)

Maximum Bandwidth Upstream: (Range: 0 - 300 Mbps, Default: 0)

Maximum Bandwidth Downstream: (Range: 0 - 300 Mbps, Default: 0)

User Group Name: Default ▼

RADIUS IP Network: IPv4 ▼

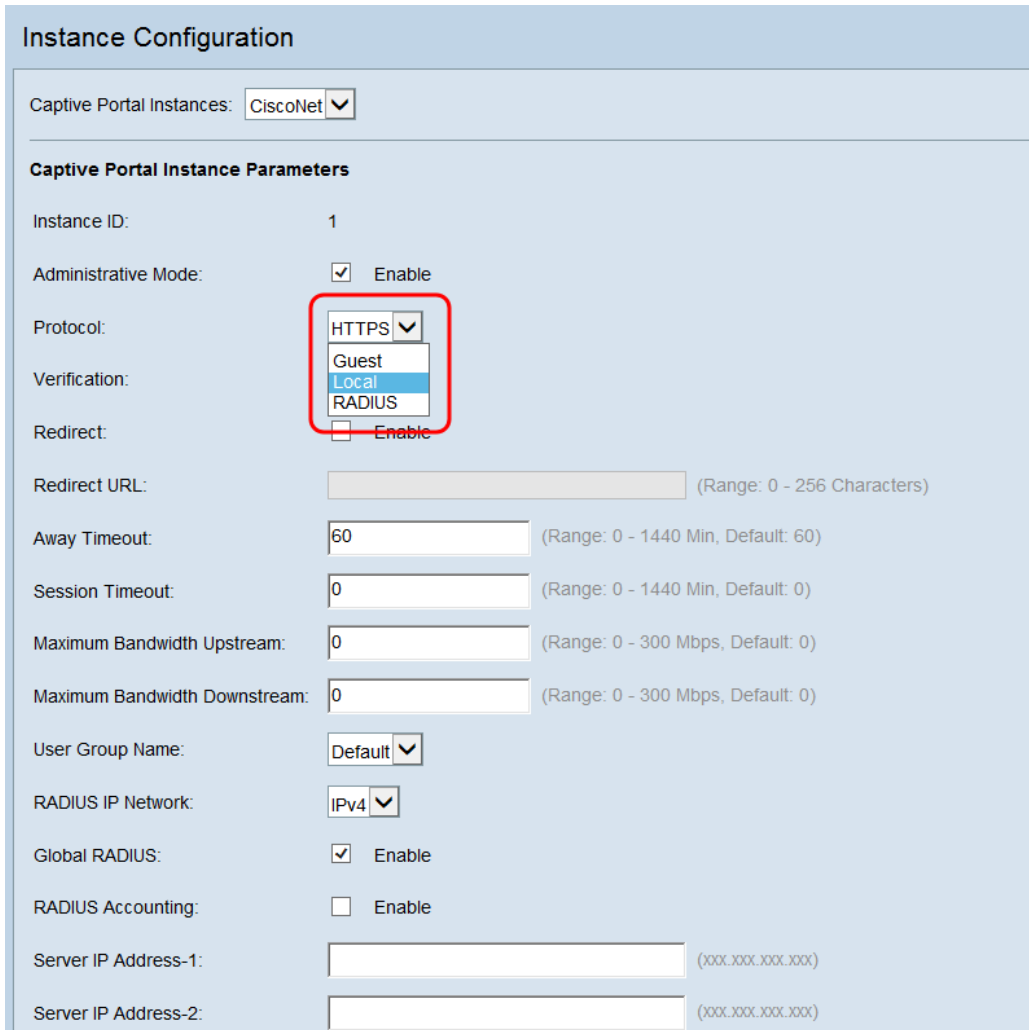
Global RADIUS: Enable

RADIUS Accounting: Enable

Server IP Address-1: (xxx.xxx.xxx.xxx)

Server IP Address-2: (xxx.xxx.xxx.xxx)

Step 6. In the *Verification* drop-down list, select the method of authentication that the Captive Portal will use.



The screenshot shows the 'Instance Configuration' page for a Captive Portal Instance. The 'Captive Portal Instances' dropdown is set to 'CiscoNet'. Under 'Captive Portal Instance Parameters', the 'Instance ID' is 1. 'Administrative Mode' is checked and 'Enable'. 'Protocol' is set to 'HTTPS'. The 'Verification' dropdown is open, showing 'Guest', 'Local' (highlighted), and 'RADIUS'. 'Redirect' is unchecked. 'Redirect URL' is empty. 'Away Timeout' is 60. 'Session Timeout' is 0. 'Maximum Bandwidth Upstream' and 'Downstream' are both 0. 'User Group Name' is 'Default'. 'RADIUS IP Network' is 'IPv4'. 'Global RADIUS' is checked and 'Enable'. 'RADIUS Accounting' is unchecked. 'Server IP Address-1' and 'Server IP Address-2' are empty.

The available options are defined as follows:

- Guest — No database authentication is required. Users will not be required to specify an account when connecting.
- Local — Users will be required to provide a username and password. The user will be authenticated using a local database.
- RADIUS — Users will be required to provide a username and password. The user will be authenticated on a remote RADIUS server.

Step 7. If you would like to redirect clients to another URL once they are authenticated, check the *Redirect* check box. Skip to [Step 9](#) if you do not wish to enable redirection.

Instance Configuration

Captive Portal Instances: CiscoNet ▼

Captive Portal Instance Parameters

Instance ID:	1
Administrative Mode:	<input checked="" type="checkbox"/> Enable
Protocol:	HTTPS ▼
Verification:	Local ▼
Redirect:	<input checked="" type="checkbox"/> Enable
Redirect URL:	<input type="text"/> (Range: 0 - 256 Characters)
Away Timeout:	<input type="text" value="60"/> (Range: 0 - 1440 Min, Default: 60)
Session Timeout:	<input type="text" value="0"/> (Range: 0 - 1440 Min, Default: 0)
Maximum Bandwidth Upstream:	<input type="text" value="0"/> (Range: 0 - 300 Mbps, Default: 0)
Maximum Bandwidth Downstream:	<input type="text" value="0"/> (Range: 0 - 300 Mbps, Default: 0)
User Group Name:	Default ▼
RADIUS IP Network:	IPv4 ▼
Global RADIUS:	<input checked="" type="checkbox"/> Enable
RADIUS Accounting:	<input type="checkbox"/> Enable
Server IP Address-1:	<input type="text"/> (xxx.xxx.xxx.xxx)
Server IP Address-2:	<input type="text"/> (xxx.xxx.xxx.xxx)

Step 8. In the *Redirect URL* field, enter the URL that you would like send clients to once they have been authenticated.

Instance Configuration

Captive Portal Instances: CiscoNet ▼

Captive Portal Instance Parameters

Instance ID:	1
Administrative Mode:	<input checked="" type="checkbox"/> Enable
Protocol:	HTTPS ▼
Verification:	Local ▼
Redirect:	<input checked="" type="checkbox"/> Enable
Redirect URL:	<input type="text" value="http://www.cisco.com"/> (Range: 0 - 256 Characters)
Away Timeout:	<input type="text" value="60"/> (Range: 0 - 1440 Min, Default: 60)
Session Timeout:	<input type="text" value="0"/> (Range: 0 - 1440 Min, Default: 0)
Maximum Bandwidth Upstream:	<input type="text" value="0"/> (Range: 0 - 300 Mbps, Default: 0)
Maximum Bandwidth Downstream:	<input type="text" value="0"/> (Range: 0 - 300 Mbps, Default: 0)
User Group Name:	Default ▼
RADIUS IP Network:	IPv4 ▼
Global RADIUS:	<input checked="" type="checkbox"/> Enable
RADIUS Accounting:	<input type="checkbox"/> Enable
Server IP Address-1:	<input type="text"/> (xxx.xxx.xxx.xxx)
Server IP Address-2:	<input type="text"/> (xxx.xxx.xxx.xxx)

Step 9. In the *Away Timeout* field, enter the time in minutes that a user will remain authenticated to the WAP after they have disconnected. If a user reconnects before this time expires, they will not need to enter authentication information.

Note: Entering a value of 0 in this field will disable the timeout.

The screenshot shows the 'Instance Configuration' page for a Captive Portal Instance. The 'Captive Portal Instance Parameters' section is visible, with the following fields and values:

- Captive Portal Instances: CiscoNet
- Instance ID: 1
- Administrative Mode: Enable
- Protocol: HTTPS
- Verification: Local
- Redirect: Enable
- Redirect URL: http://www.cisco.com (Range: 0 - 256 Characters)
- Away Timeout: 60 (Range: 0 - 1440 Min, Default: 60) - This field is highlighted with a red box.
- Session Timeout: 0 (Range: 0 - 1440 Min, Default: 0)
- Maximum Bandwidth Upstream: 0 (Range: 0 - 300 Mbps, Default: 0)
- Maximum Bandwidth Downstream: 0 (Range: 0 - 300 Mbps, Default: 0)
- User Group Name: Default
- RADIUS IP Network: IPv4
- Global RADIUS: Enable
- RADIUS Accounting: Enable
- Server IP Address-1: (Range: xxx.xxx.xxx.xxx)
- Server IP Address-2: (Range: xxx.xxx.xxx.xxx)

Note: If you have entered away timeouts for a Local User, then the timeouts set for the Local User will take precedence over what is set for the Captive Portal instance.

Step 10. In the *Session Timeout* field, enter the time in minutes until the WAP will force a user to log off, even if they are still connected. The default value is 0.

Note: Entering a value of 0 in this field will disabled the timeout.

Instance Configuration

Captive Portal Instances: CiscoNet ▼

Captive Portal Instance Parameters

Instance ID: 1

Administrative Mode: Enable

Protocol: HTTPS ▼

Verification: Local ▼

Redirect: Enable

Redirect URL: (Range: 0 - 256 Characters)

Away Timeout: (Range: 0 - 1440 Min, Default: 60)

Session Timeout: (Range: 0 - 1440 Min, Default: 0)

Maximum Bandwidth Upstream: (Range: 0 - 300 Mbps, Default: 0)

Maximum Bandwidth Downstream: (Range: 0 - 300 Mbps, Default: 0)

User Group Name: Default ▼

RADIUS IP Network: IPv4 ▼

Global RADIUS: Enable

RADIUS Accounting: Enable

Server IP Address-1: (xxx.xxx.xxx.xxx)

Server IP Address-2: (xxx.xxx.xxx.xxx)

Step 11. In the *Maximum Bandwidth Upstream* and *Maximum Bandwidth Downstream* fields, enter the maximum bandwidth in Mbps that users should be allowed to transmit data at over the wireless network. The default value is 0.

Note: Entering a value of 0 in this field specifies that the bandwidth should not be limited.

Note: If you have entered maximum bandwidth values for a Local User, then the maximum bandwidth values set for the Local User will take precedence over what is set for the Captive Portal instance.

The screenshot shows the 'Instance Configuration' page for a Captive Portal Instance. The 'Captive Portal Instance Parameters' section is visible, with the following fields and values:

- Captive Portal Instances: CiscoNet
- Instance ID: 1
- Administrative Mode: Enable
- Protocol: HTTPS
- Verification: Local
- Redirect: Enable
- Redirect URL: http://www.cisco.com (Range: 0 - 256 Characters)
- Away Timeout: 60 (Range: 0 - 1440 Min, Default: 60)
- Session Timeout: 0 (Range: 0 - 1440 Min, Default: 0)
- Maximum Bandwidth Upstream: 300 (Range: 0 - 300 Mbps, Default: 0)
- Maximum Bandwidth Downstream: 300 (Range: 0 - 300 Mbps, Default: 0)
- User Group Name: Default
- RADIUS IP Network: IPv4
- Global RADIUS: Enable
- RADIUS Accounting: Enable
- Server IP Address-1: (Range: xxx.xxx.xxx.xxx)
- Server IP Address-2: (Range: xxx.xxx.xxx.xxx)

The 'Maximum Bandwidth Upstream' and 'Maximum Bandwidth Downstream' fields are highlighted with a red box, indicating the values 300 Mbps.

Step 12. In the *User Group Name* drop-down list, select the user group that you would like to associate the Captive Portal instance with. If you have selected guest verification in Step 6, you may skip this step.

Verification:	Local	▼
Redirect:	<input checked="" type="checkbox"/>	Enable
Redirect URL:	<input type="text" value="http://www.cisco.com"/>	(Range: 0 - 256 Characters)
Away Timeout:	<input type="text" value="60"/>	(Range: 0 - 1440 Min, Default: 60)
Session Timeout:	<input type="text" value="0"/>	(Range: 0 - 1440 Min, Default: 0)
Maximum Bandwidth Upstream:	<input type="text" value="300"/>	(Range: 0 - 300 Mbps, Default: 0)
Maximum Bandwidth Downstream:	<input type="text" value="300"/>	(Range: 0 - 300 Mbps, Default: 0)
User Group Name:	<div style="border: 1px solid red; padding: 2px;"><input type="text" value="Default"/> <input type="text" value="cisco"/></div>	
RADIUS IP Network:	IPv4	▼
Global RADIUS:	<input checked="" type="checkbox"/>	Enable
RADIUS Accounting:	<input type="checkbox"/>	Enable
Server IP Address-1:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Server IP Address-2:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Server IP Address-3:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Server IP Address-4:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Key-1:	<input type="text"/>	(Range: 1 - 63 Characters)
Key-2:	<input type="text"/>	(Range: 1 - 63 Characters)
Key-3:	<input type="text"/>	(Range: 1 - 63 Characters)

Step 13. Select from the *RADIUS IP Network* the IP version your RADIUS server uses. If you do not use a RADIUS server for authentication, skip ahead to [Step 17](#).

Verification:	Local	▼
Redirect:	<input checked="" type="checkbox"/>	Enable
Redirect URL:	<input type="text" value="http://www.cisco.com"/>	(Range: 0 - 256 Characters)
Away Timeout:	<input type="text" value="60"/>	(Range: 0 - 1440 Min, Default: 60)
Session Timeout:	<input type="text" value="0"/>	(Range: 0 - 1440 Min, Default: 0)
Maximum Bandwidth Upstream:	<input type="text" value="300"/>	(Range: 0 - 300 Mbps, Default: 0)
Maximum Bandwidth Downstream:	<input type="text" value="300"/>	(Range: 0 - 300 Mbps, Default: 0)
User Group Name:	cisco	▼
RADIUS IP Network:	<div style="border: 1px solid red; padding: 2px;"><input checked="" type="radio"/> IPv4 <input type="radio"/> IPv6</div>	
Global RADIUS:	<input checked="" type="checkbox"/>	Enable
RADIUS Accounting:	<input type="checkbox"/>	Enable
Server IP Address-1:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Server IP Address-2:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Server IP Address-3:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Server IP Address-4:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Key-1:	<input type="text"/>	(Range: 1 - 63 Characters)
Key-2:	<input type="text"/>	(Range: 1 - 63 Characters)
Key-3:	<input type="text"/>	(Range: 1 - 63 Characters)

Step 14. If you have configured global RADIUS on your device, you can check the *Global RADIUS* check box to authenticate using the globally defined RADIUS server. For more information refer to [Configuring a Globally Defined RADIUS Server on the WAP351 and WAP371 Access Points](#).

Away Timeout:	<input type="text" value="60"/>	(Range: 0 - 1440 Min, Default: 60)
Session Timeout:	<input type="text" value="0"/>	(Range: 0 - 1440 Min, Default: 0)
Maximum Bandwidth Upstream:	<input type="text" value="300"/>	(Range: 0 - 300 Mbps, Default: 0)
Maximum Bandwidth Downstream:	<input type="text" value="300"/>	(Range: 0 - 300 Mbps, Default: 0)
User Group Name:	<input type="text" value="cisco"/>	
RADIUS IP Network:	<input type="text" value="IPv4"/>	
Global RADIUS:	<input checked="" type="checkbox"/> Enable	
RADIUS Accounting:	<input type="checkbox"/> Enable	
Server IP Address-1:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Server IP Address-2:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Server IP Address-3:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Server IP Address-4:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Key-1:	<input type="text"/>	(Range: 1 - 63 Characters)
Key-2:	<input type="text"/>	(Range: 1 - 63 Characters)
Key-3:	<input type="text"/>	(Range: 1 - 63 Characters)
Key-4:	<input type="text"/>	(Range: 1 - 63 Characters)
Locale Count:	<input type="text" value="0"/>	
Delete Instance:	<input type="checkbox"/>	

Step 15. If you would like your RADIUS server to collect data on user network usage, check the *RADIUS Accounting* check box.

Away Timeout:	<input type="text" value="00"/>	(Range: 0 - 1440 min, Default: 00)
Session Timeout:	<input type="text" value="0"/>	(Range: 0 - 1440 Min, Default: 0)
Maximum Bandwidth Upstream:	<input type="text" value="300"/>	(Range: 0 - 300 Mbps, Default: 0)
Maximum Bandwidth Downstream:	<input type="text" value="300"/>	(Range: 0 - 300 Mbps, Default: 0)
User Group Name:	<input type="text" value="cisco"/>	▼
RADIUS IP Network:	<input type="text" value="IPv4"/>	▼
Global RADIUS:	<input checked="" type="checkbox"/>	Enable
RADIUS Accounting:	<input checked="" type="checkbox"/>	Enable
Server IP Address-1:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Server IP Address-2:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Server IP Address-3:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Server IP Address-4:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Key-1:	<input type="text"/>	(Range: 1 - 63 Characters)
Key-2:	<input type="text"/>	(Range: 1 - 63 Characters)
Key-3:	<input type="text"/>	(Range: 1 - 63 Characters)
Key-4:	<input type="text"/>	(Range: 1 - 63 Characters)
Locale Count:	<input type="text" value="0"/>	
Delete Instance:	<input type="checkbox"/>	

Step 16. If you have not enabled Global RADIUS in Step 14, enter the IPs and keys for the RADIUS servers you would like to associate with this specific Captive Portal instance. Key-1 is associated with Server IP Address-1, Key-2 is associated with Server IP Address-2, and so on.

Away Timeout:	<input type="text" value="00"/>	(Range: 0 - 1440 Min, Default: 00)
Session Timeout:	<input type="text" value="0"/>	(Range: 0 - 1440 Min, Default: 0)
Maximum Bandwidth Upstream:	<input type="text" value="300"/>	(Range: 0 - 300 Mbps, Default: 0)
Maximum Bandwidth Downstream:	<input type="text" value="300"/>	(Range: 0 - 300 Mbps, Default: 0)
User Group Name:	<input type="text" value="cisco"/>	▼
RADIUS IP Network:	<input type="text" value="IPv4"/>	▼
Global RADIUS:	<input type="checkbox"/>	Enable
RADIUS Accounting:	<input checked="" type="checkbox"/>	Enable
Server IP Address-1:	<input type="text" value="10.1.1.144"/>	(xxx.xxx.xxx.xxx)
Server IP Address-2:	<input type="text" value="10.1.1.145"/>	(xxx.xxx.xxx.xxx)
Server IP Address-3:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Server IP Address-4:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Key-1:	<input type="text" value="●●●●●●●●●●"/>	(Range: 1 - 63 Characters)
Key-2:	<input type="text" value="●●●●●●●●●●"/>	(Range: 1 - 63 Characters)
Key-3:	<input type="text"/>	(Range: 1 - 63 Characters)
Key-4:	<input type="text"/>	(Range: 1 - 63 Characters)
Locale Count:	<input type="text" value="0"/>	
Delete Instance:	<input type="checkbox"/>	

Note: The *Locale Count* field displays the number of locales that are configured for this Captive Portal instance. A default locale will be configured later in this article. More advanced information on configuring locales can be found in [Configuring Locales on the WAP351 and WAP371 Access Points](#).

Away Timeout:	<input type="text" value="00"/>	(Range: 0 - 1440 min, Default: 00)
Session Timeout:	<input type="text" value="0"/>	(Range: 0 - 1440 Min, Default: 0)
Maximum Bandwidth Upstream:	<input type="text" value="300"/>	(Range: 0 - 300 Mbps, Default: 0)
Maximum Bandwidth Downstream:	<input type="text" value="300"/>	(Range: 0 - 300 Mbps, Default: 0)
User Group Name:	<input type="text" value="cisco"/>	▼
RADIUS IP Network:	<input type="text" value="IPv4"/>	▼
Global RADIUS:	<input type="checkbox"/>	Enable
RADIUS Accounting:	<input checked="" type="checkbox"/>	Enable
Server IP Address-1:	<input type="text" value="10.1.1.144"/>	(xxx.xxx.xxx.xxx)
Server IP Address-2:	<input type="text" value="10.1.1.145"/>	(xxx.xxx.xxx.xxx)
Server IP Address-3:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Server IP Address-4:	<input type="text"/>	(xxx.xxx.xxx.xxx)
Key-1:	<input type="text" value="●●●●●●●●"/>	(Range: 1 - 63 Characters)
Key-2:	<input type="text" value="●●●●●●●●"/>	(Range: 1 - 63 Characters)
Key-3:	<input type="text"/>	(Range: 1 - 63 Characters)
Key-4:	<input type="text"/>	(Range: 1 - 63 Characters)
Locale Count:	<input type="text" value="0"/>	
Delete Instance:	<input type="checkbox"/>	

Step 17. Click **Save**.

The screenshot displays the configuration page for a Captive Portal Instance on a Cisco WAP371. The interface includes a left-hand navigation menu and a main configuration area. The 'Save' button at the bottom is highlighted with a red box.

Field	Value	Notes
Maximum Bandwidth Upstream:	300	(Range: 0 - 300 Mbps, Default: 0)
Maximum Bandwidth Downstream:	300	(Range: 0 - 300 Mbps, Default: 0)
User Group Name:	cisco	Dropdown menu
RADIUS IP Network:	IPv4	Dropdown menu
Global RADIUS:	<input type="checkbox"/> Enable	
RADIUS Accounting:	<input checked="" type="checkbox"/> Enable	
Server IP Address-1:	10.1.1.144	(xxx.xxx.xxx.xxx)
Server IP Address-2:	10.1.1.145	(xxx.xxx.xxx.xxx)
Server IP Address-3:		(xxx.xxx.xxx.xxx)
Server IP Address-4:		(xxx.xxx.xxx.xxx)
Key-1:	(Range: 1 - 63 Characters)
Key-2:	(Range: 1 - 63 Characters)
Key-3:		(Range: 1 - 63 Characters)
Key-4:		(Range: 1 - 63 Characters)
Locale Count:	0	
Delete Instance:	<input type="checkbox"/>	

Associating a Captive Portal Instance with an SSID

Once created, a Captive Portal Instance must be assigned with a VAP in order to allow clients to connect to it.

Step 1. Navigate to **Captive Portal > Instance Association**. The *Instance Association* screen appears:

Instance Association

Radio: Radio 1 (5 GHz)
 Radio 2 (2.4 GHz)

Network Interface	Instance Name
VAP 0 (ciscosb)	<input type="text"/> ▼
VAP 1 (Virtual Access Point 2)	<input type="text"/> ▼
VAP 2 (Virtual Access Point 3)	<input type="text"/> ▼
VAP 3 (Virtual Access Point 4)	<input type="text"/> ▼
VAP 4 (Virtual Access Point 5)	<input type="text"/> ▼
VAP 5 (Virtual Access Point 6)	<input type="text"/> ▼
VAP 6 (Virtual Access Point 7)	<input type="text"/> ▼
VAP 7 (Virtual Access Point 8)	<input type="text"/> ▼

Step 2. In the *Radio* field, select the radio button corresponding with the radio band that you wish to use. 5GHz provides a higher bandwidth over a shorter range, and may be incompatible with older wireless clients. 2.4 GHz provides a lower bandwidth, but larger range and compatibility.

Radio: Radio 1 (5 GHz)
 Radio 2 (2.4 GHz)

Step 3. Under the *Instance Name* column, select the drop-down box corresponding with the VAP that you wish to use the Captive Portal on.

Radio: Radio 1 (5 GHz)
 Radio 2 (2.4 GHz)

Instance Association	
Network Interface	Instance Name
VAP 0 (ciscosb)	CiscoNet
VAP 1 (Virtual Access Point 2)	<input type="text"/>
VAP 2 (Virtual Access Point 3)	<input type="text"/>
VAP 3 (Virtual Access Point 4)	<input type="text"/>
VAP 4 (Virtual Access Point 5)	<input type="text"/>
VAP 5 (Virtual Access Point 6)	<input type="text"/>
VAP 6 (Virtual Access Point 7)	<input type="text"/>
VAP 7 (Virtual Access Point 8)	<input type="text"/>

Step 4. Click **Save**.

Create a New Captive Portal Locale

A locale allows you to modify what is displayed to the user when they are prompted for a login. You can have up to 3 locales configured to each Captive Portal Instance.

Step 1. Navigate to **Captive Portal > Web Portal Customization**. The *Web Portal Customization* page appears:

Web Portal Customization

Captive Portal Web Locale: ▼

Captive Portal Web Locale Parameters

Web Locale Name: (Range: 1 - 32 Characters)

Captive Portal Instances ▼

Step 2. Enter a name for the locale in the *Web Locale Name* field.

Web Portal Customization

Captive Portal Web Locale: ▼

Captive Portal Web Locale Parameters

Web Locale Name: (Range: 1 - 32 Characters)

Captive Portal Instances ▼

Step 3. Select the appropriate Captive Portal Instance that you would like to associate the locale with from the *Captive Portal Instances* drop-down box.

Web Portal Customization

Captive Portal Web Locale: ▼

Captive Portal Web Locale Parameters

Web Locale Name: (Range: 1 - 32 Characters)

Captive Portal Instances: ▼

Step 4. Click **Save**. Additional parameters appear allowing the login page to be modified. For additional information on modifying locales, see [Configuring Locales on the WAP351 and WAP371 Access Points](#).

Web Portal Customization

Captive Portal Web Locale: ▼

Captive Portal Web Locale Parameters

Locale ID:	1
Instance Name:	CiscoNet
Background Image Name:	<input type="text" value="cisco_bkg.jpg"/> ▼ <input type="button" value="Upload/Delete Custom Image"/>
Logo Image Name:	<input type="text" value="cisco_logo.png"/> ▼ <input type="button" value="Upload/Delete Custom Image"/>
Foreground Color:	<input type="text" value="#999999"/> (Range: 1 - 32 Characters, Default: #999999)
Background Color:	<input type="text" value="#BFBFBF"/> (Range: 1 - 32 Characters, Default: #BFBFBF)
Separator:	<input type="text" value="#BFBFBF"/> (Range: 1 - 32 Characters, Default: #BFBFBF)
Locale Label:	<input type="text" value="English"/> (Range: 1 - 32 Characters, Default: English)
Locale:	<input type="text" value="en"/> (Range: 1 - 32 Characters, Default: en)
Account Image:	<input type="text" value="login_key.jpg"/> ▼ <input type="button" value="Upload/Delete Custom Image"/>
Account Label:	<input type="text" value="Enter your Username"/> (Range: 1 - 32 Characters)
User Label:	<input type="text" value="Username:"/> (Range: 1 - 32 Characters)
Password Label:	<input type="text" value="Password:"/> (Range: 1 - 64 Characters)

Step 5. When finished modifying the locale, press **Save**.

Enabling Captive Portal

Once configured, the Captive Portal mode must be enabled.

Step 1. Navigate to **Captive Portal > Global Configuration**. The *Global Configuration* screen appears:

Global Configuration

Captive Portal Mode: Enable

Authentication Timeout: Sec (Range: 60 - 600, Default: 300)

Additional HTTP Port: (Range: 1025-65535 or 80, 0 = Disable, Default: 0)

Additional HTTPS Port: (Range: 1025-65535 or 443, 0 = Disable, Default: 0)

Captive Portal Configuration Counters

Instance Count:	1
Group Count:	2
User Count:	1

Step 2. In the *Captive Portal Mode* field, select the **Enable** checkbox to activate the Captive Portal.

Global Configuration

Captive Portal Mode: Enable

Authentication Timeout: Sec (Range: 60 - 600, Default: 300)

Additional HTTP Port: (Range: 1025-65535 or 80, 0 = Disable, Default: 0)

Additional HTTPS Port: (Range: 1025-65535 or 443, 0 = Disable, Default: 0)

Captive Portal Configuration Counters

Instance Count:	1
Group Count:	2
User Count:	1

Step 3. Click **Save** to finalize your changes.

Global Configuration

Captive Portal Mode: Enable

Authentication Timeout: Sec (Range: 60 - 600, Default: 300)

Additional HTTP Port: (Range: 1025-65535 or 80, 0 = Disable, Default: 0)

Additional HTTPS Port: (Range: 1025-65535 or 443, 0 = Disable, Default: 0)

Captive Portal Configuration Counters

Instance Count:	1
Group Count:	2
User Count:	1