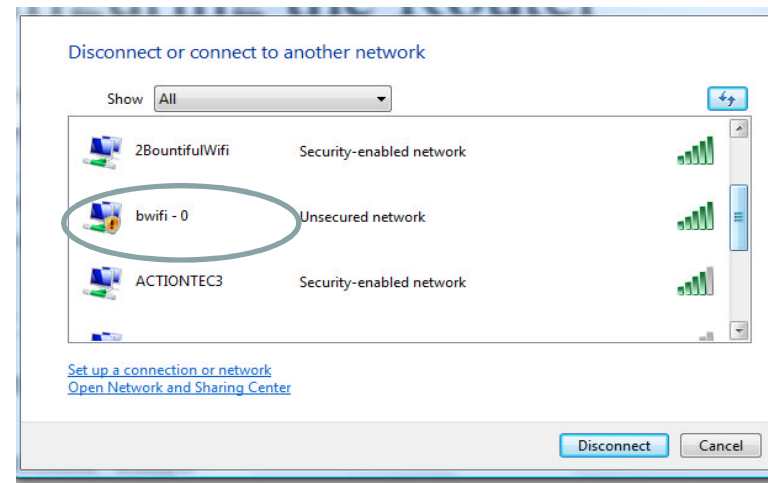
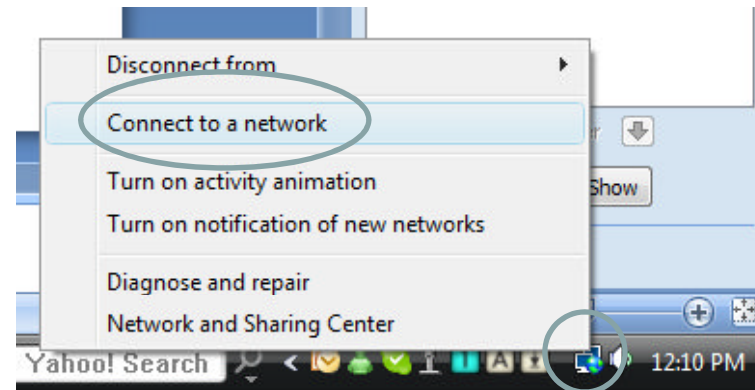


WDS (Wireless Distribution System)

Setting your router up in Bridge
Mode

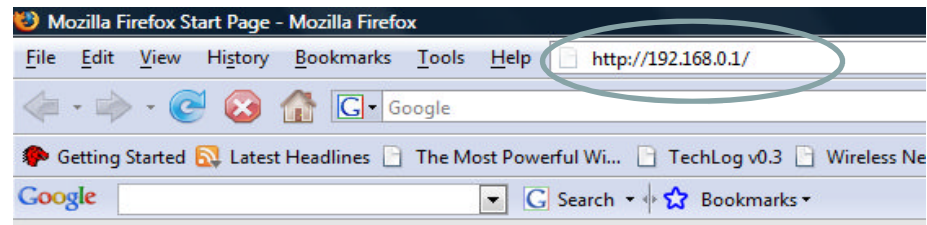
Access Web Interface

View wireless network(s) and connect to bwifi - 0
Or the SSID assigned to the
*Note The wireless network must be enabled on your computer



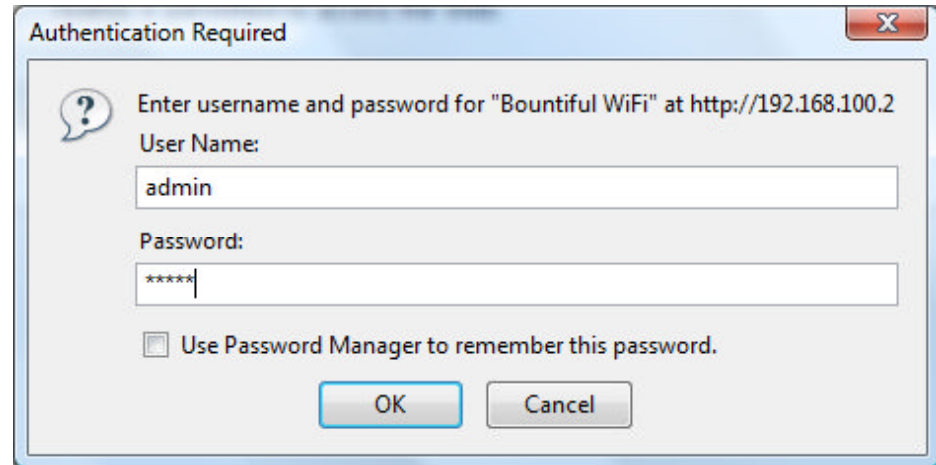
Accessing Web Interface

Open an internet browser
and type in the router IP
address
(default=192.168.0.1)
Or IP address you assigned
to your router



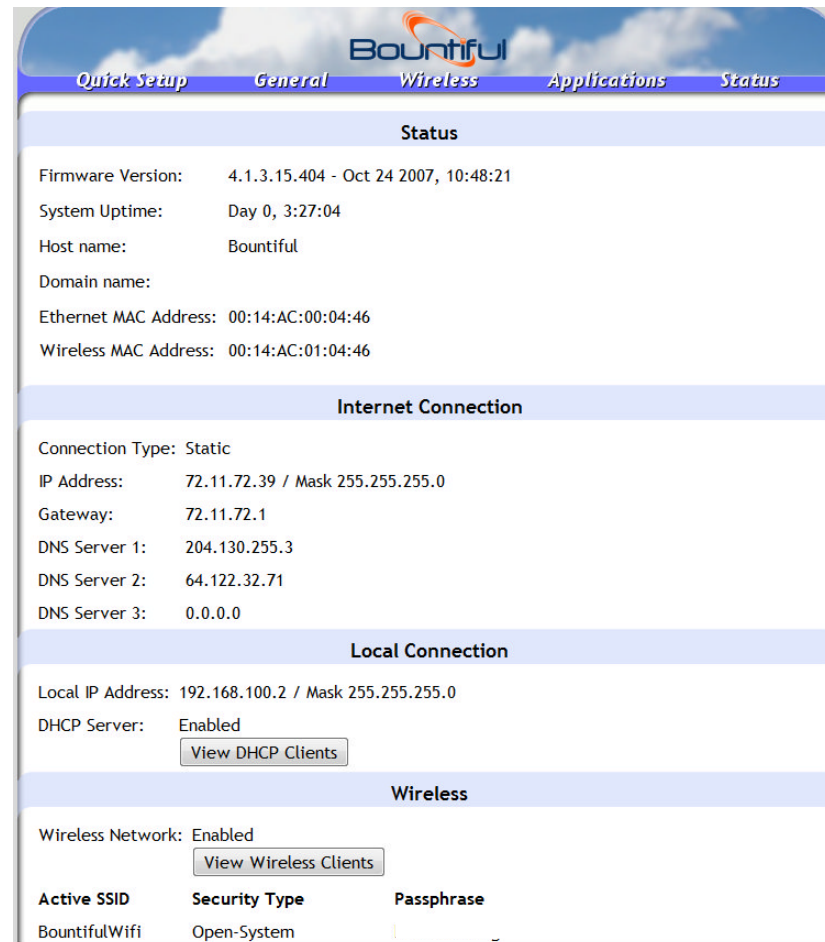
Accessing Web Interface

Type in user name and password
default username=admin
password =admin
Or the username and password
assigned to the router

A screenshot of a Windows-style dialog box titled "Authentication Required". The dialog box has a blue title bar with a close button (X) in the top right corner. The main content area is white and contains a question mark icon in a speech bubble on the left. To the right of the icon, the text reads: "Enter username and password for 'Bountiful WiFi' at http://192.168.100.2". Below this text are two input fields. The first is labeled "User Name:" and contains the text "admin". The second is labeled "Password:" and contains five asterisks "*****". Below the password field is a checkbox with the label "Use Password Manager to remember this password.", which is currently unchecked. At the bottom of the dialog box are two buttons: "OK" and "Cancel".

Accessing Web Interface

This is the status page of the Bountiful Web Interface



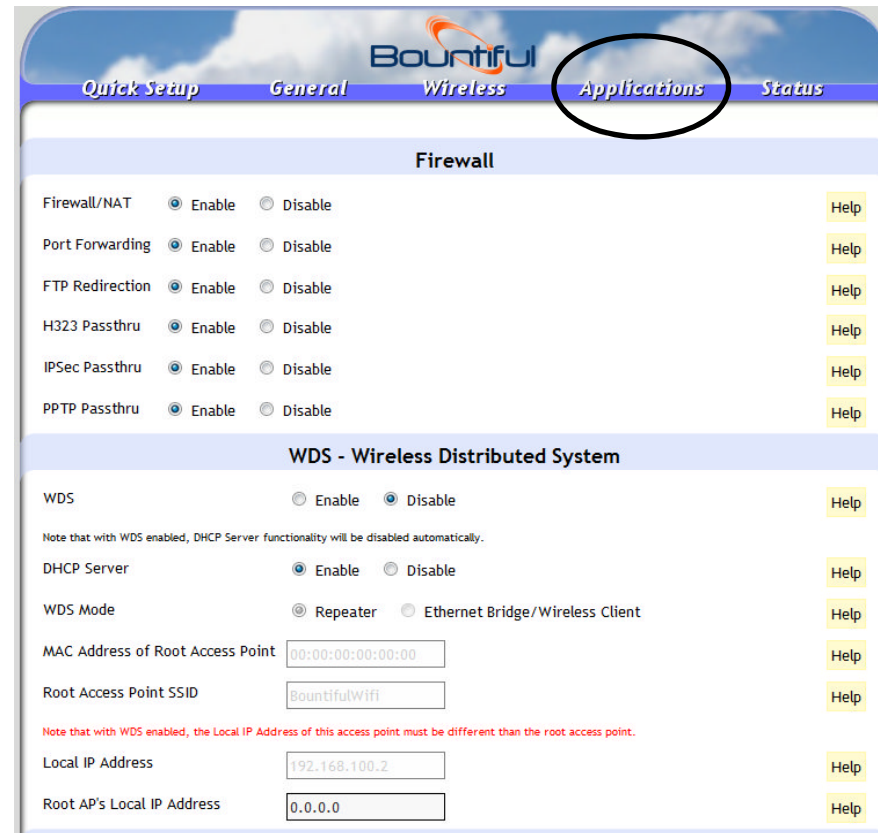
The screenshot shows the Bountiful web interface with the following sections:

- Navigation:** Quick Setup, General, **Wireless**, Applications, Status
- Status Section:**
 - Firmware Version: 4.1.3.15.404 - Oct 24 2007, 10:48:21
 - System Uptime: Day 0, 3:27:04
 - Host name: Bountiful
 - Domain name:
 - Ethernet MAC Address: 00:14:AC:00:04:46
 - Wireless MAC Address: 00:14:AC:01:04:46
- Internet Connection Section:**
 - Connection Type: Static
 - IP Address: 72.11.72.39 / Mask 255.255.255.0
 - Gateway: 72.11.72.1
 - DNS Server 1: 204.130.255.3
 - DNS Server 2: 64.122.32.71
 - DNS Server 3: 0.0.0.0
- Local Connection Section:**
 - Local IP Address: 192.168.100.2 / Mask 255.255.255.0
 - DHCP Server: Enabled
 - [View DHCP Clients](#)
- Wireless Section:**
 - Wireless Network: Enabled
 - [View Wireless Clients](#)
- Wireless Network Table:**

Active SSID	Security Type	Passphrase
BountifulWifi	Open-System	

Configuring WDS

Click on applications and scroll down to WDS-Wireless Distributed System



The screenshot shows the Bountiful web interface with the 'Applications' menu item circled. Below it, the 'Firewall' section is visible, followed by the 'WDS - Wireless Distributed System' section. The WDS section includes options for enabling/disabling WDS, DHCP Server, and WDS Mode, along with input fields for MAC Address of Root Access Point, Root Access Point SSID, Local IP Address, and Root AP's Local IP Address. A red note indicates that the Local IP Address must be different from the root access point's IP when WDS is enabled.

Section	Item	Value / Option	Help
Firewall	Firewall/NAT	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	Help
	Port Forwarding	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	Help
	FTP Redirection	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	Help
	H323 Passthru	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	Help
	IPSec Passthru	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	Help
	PPTP Passthru	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	Help
WDS - Wireless Distributed System	WDS	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	Help
	<small>Note that with WDS enabled, DHCP Server functionality will be disabled automatically.</small>		
	DHCP Server	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	Help
	WDS Mode	<input checked="" type="radio"/> Repeater <input type="radio"/> Ethernet Bridge/Wireless Client	Help
	MAC Address of Root Access Point	<input type="text" value="00:00:00:00:00:00"/>	Help
	Root Access Point SSID	<input type="text" value="BountifulWifi"/>	Help
	<small>Note that with WDS enabled, the Local IP Address of this access point must be different than the root access point.</small>		
Local IP Address	<input type="text" value="192.168.100.2"/>	Help	
Root AP's Local IP Address	<input type="text" value="0.0.0.0"/>	Help	

Configuring WDS

Enable WDS

WDS - Wireless Distributed System

WDS Enable Disable

Note that with WDS enabled, DHCP Server functionality will be disabled automatically.

DHCP Server Enable Disable

WDS Mode Repeater Ethernet Bridge/Wireless Client

MAC Address of Root Access Point

Root Access Point SSID

Note that with WDS enabled, the Local IP Address of this access point must be different than the root access point.

Local IP Address

Root AP's Local IP Address

Configuring WDS

Click on Bridge
WDS Mode

WDS - Wireless Distributed System

WDS Enable Disable

Note that with WDS enabled, DHCP Server functionality will be disabled automatically.

DHCP Server Enable Disable

WDS Mode Repeater Ethernet Bridge/Wireless Client

MAC Address of Root Access Point

Root Access Point SSID

Note that with WDS enabled, the Local IP Address of this access point must be different than the root access point.

Local IP Address

Root AP's Local IP Address

Configuring WDS

Type in the Root
SSID

WDS - Wireless Distributed System

WDS Enable Disable

Note that with WDS enabled, DHCP Server functionality will be disabled automatically.

DHCP Server Enable Disable

WDS Mode Repeater Ethernet Bridge/Wireless Client

MAC Address of Root Access Point

Root Access Point SSID

Note that with WDS enabled, the Local IP Address of this access point must be different than the root access point.

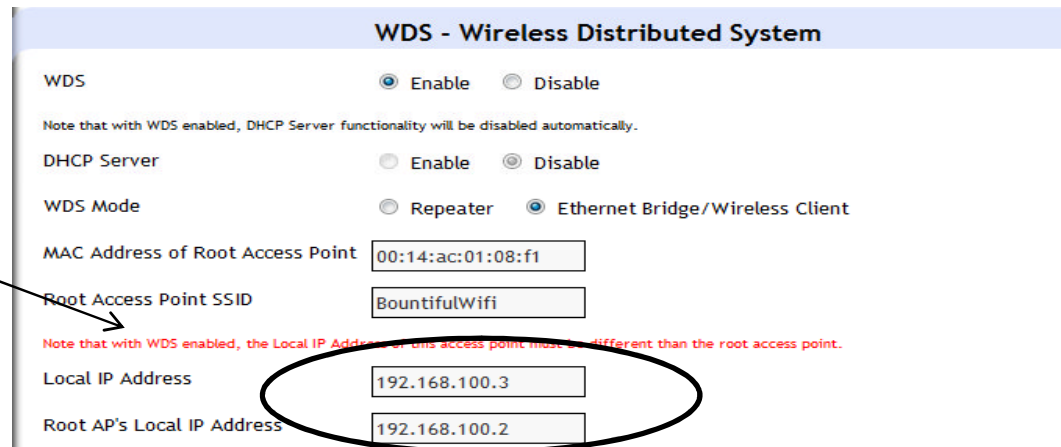
Local IP Address

Root AP's Local IP Address

Configuring WDS

Type in the Local IP address and the root IP address

* Note that with WDS enabled, the Local IP Address of this access point must be different than the root access point.



The screenshot shows the 'WDS - Wireless Distributed System' configuration page. It includes the following settings:

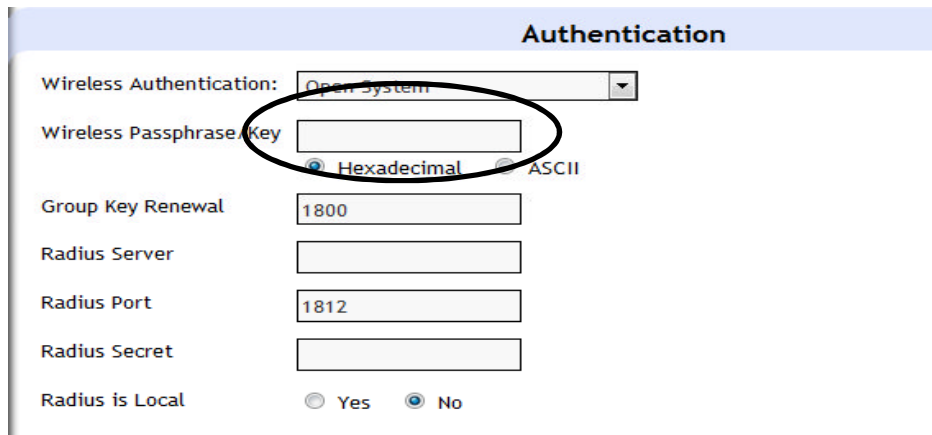
- WDS: Enable Disable
- Note that with WDS enabled, DHCP Server functionality will be disabled automatically.
- DHCP Server: Enable Disable
- WDS Mode: Repeater Ethernet Bridge/Wireless Client
- MAC Address of Root Access Point: 00:14:ac:01:08:f1
- Root Access Point SSID: BountifulWifi
- Note that with WDS enabled, the Local IP Address of this access point must be different than the root access point.
- Local IP Address: 192.168.100.3
- Root AP's Local IP Address: 192.168.100.2

An arrow points from the text on the left to the 'Local IP Address' field, and a circle highlights the 'Local IP Address' and 'Root AP's Local IP Address' fields.

Configuring WDS

*Note If the root AP has encryption the Bridging router must be using the same passphrase Key

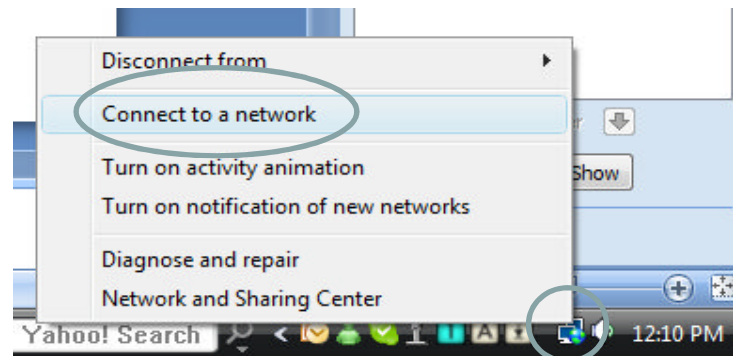
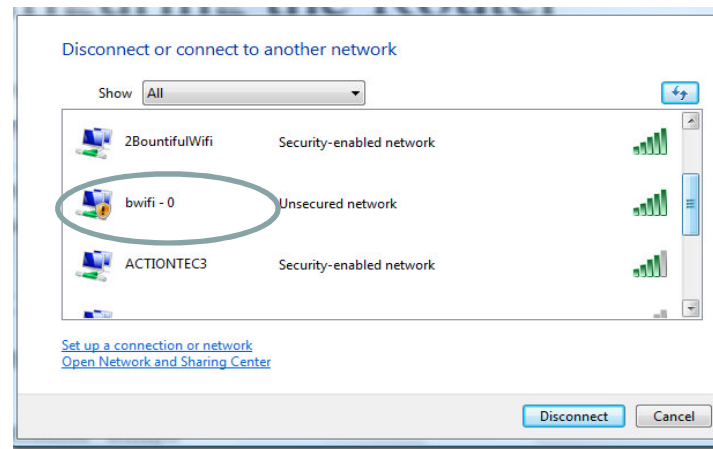
Bridging only allows WEP encryption

A screenshot of a web-based configuration interface titled "Authentication". The page contains several fields and options:

- Wireless Authentication:** A dropdown menu set to "Open System".
- Wireless Passphrase Key:** A text input field, circled in black, with a "Hexadecimal" radio button selected and an "ASCII" radio button unselected.
- Group Key Renewal:** A text input field containing "1800".
- Radius Server:** An empty text input field.
- Radius Port:** A text input field containing "1812".
- Radius Secret:** An empty text input field.
- Radius is Local:** Radio buttons for "Yes" and "No", with "No" selected.

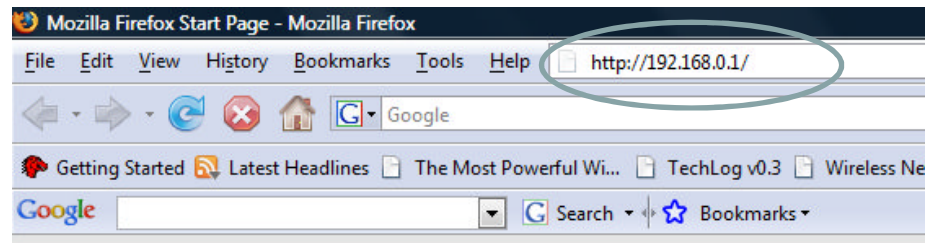
Logging into the Root AP

View wireless network(s)
and connect to bwifi - 0
Or the SSID assigned to the
router *Note The wireless
network must be enabled on
your computer



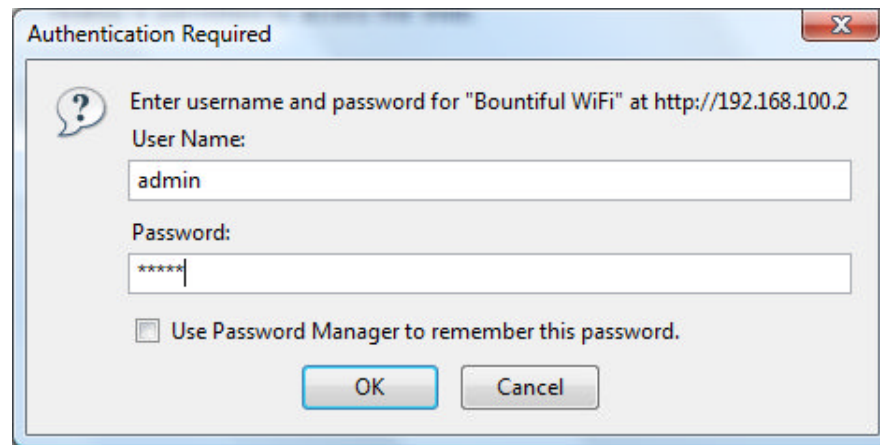
Logging into the Root AP

Open an internet browser and type in the router's IP address (default=192.168.0.1)
Or IP address assigned to the router



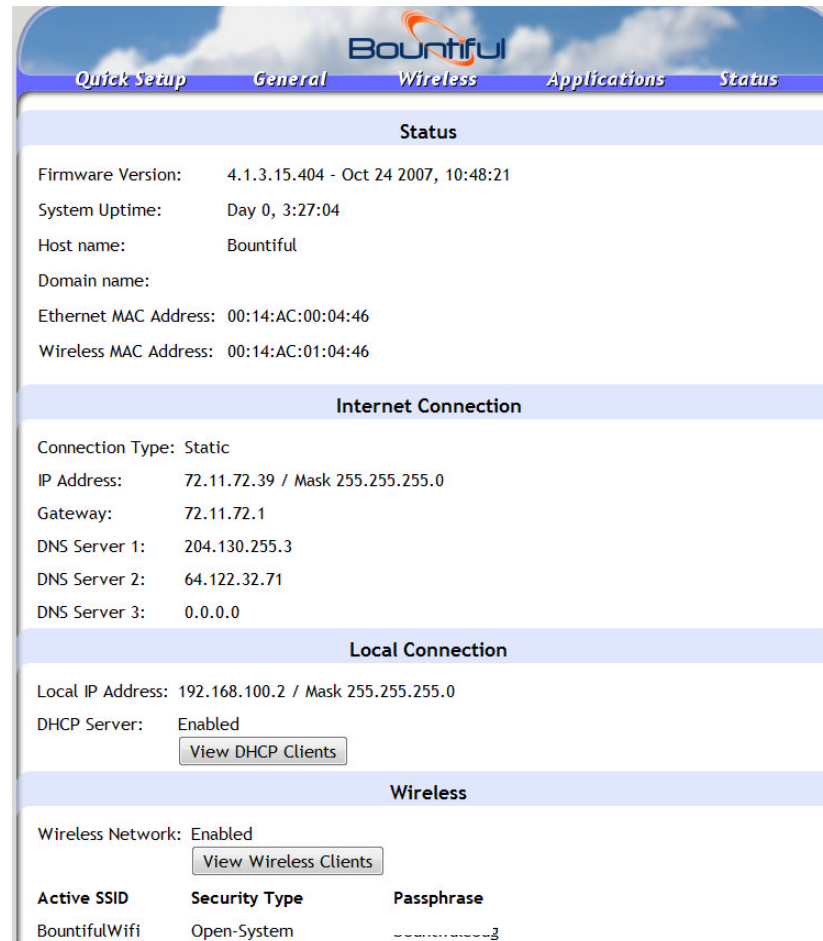
Logging into the Root AP

Type in user name and
password default
username=admin
password =admin
Or the username and
password the was
assigned to the router



Logging into the Root AP

This is the status page of the Bountiful Web Interface



The screenshot shows the Bountiful web interface with the following sections:

- Navigation:** Quick Setup, General, **Wireless**, Applications, Status
- Status:**
 - Firmware Version: 4.1.3.15.404 - Oct 24 2007, 10:48:21
 - System Uptime: Day 0, 3:27:04
 - Host name: Bountiful
 - Domain name:
 - Ethernet MAC Address: 00:14:AC:00:04:46
 - Wireless MAC Address: 00:14:AC:01:04:46
- Internet Connection:**
 - Connection Type: Static
 - IP Address: 72.11.72.39 / Mask 255.255.255.0
 - Gateway: 72.11.72.1
 - DNS Server 1: 204.130.255.3
 - DNS Server 2: 64.122.32.71
 - DNS Server 3: 0.0.0.0
- Local Connection:**
 - Local IP Address: 192.168.100.2 / Mask 255.255.255.0
 - DHCP Server: Enabled
 - [View DHCP Clients](#)
- Wireless:**
 - Wireless Network: Enabled
 - [View Wireless Clients](#)

Active SSID	Security Type	Passphrase
BountifulWifi	Open-Systemg

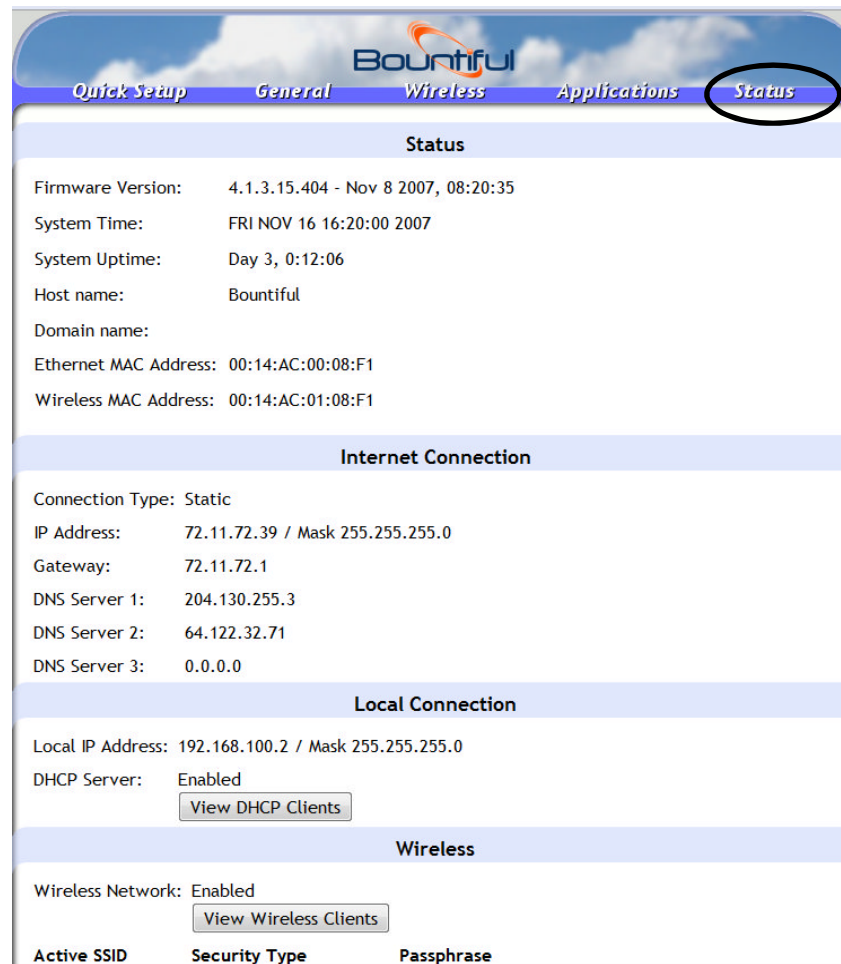
Logging into the Root AP

Wait 30 seconds to check if the root AP and repeater that have associated

To check to see if the routers have associated
Log into Root AP's Web Interface

Validate Connection

Click on the status page of the Bountiful Web Interface

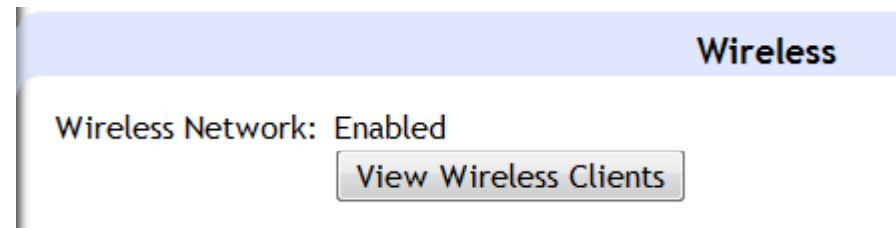


The screenshot shows the Bountiful Web Interface with the 'Status' tab selected. The interface includes a navigation bar with 'Quick Setup', 'General', 'Wireless', 'Applications', and 'Status' (circled). The main content area is divided into sections: 'Status', 'Internet Connection', 'Local Connection', and 'Wireless'. The 'Status' section displays system information such as Firmware Version, System Time, System Uptime, Host name, Domain name, Ethernet MAC Address, and Wireless MAC Address. The 'Internet Connection' section shows Connection Type (Static), IP Address, Gateway, and DNS Servers. The 'Local Connection' section shows Local IP Address, DHCP Server status, and a 'View DHCP Clients' button. The 'Wireless' section shows Wireless Network status and a 'View Wireless Clients' button. At the bottom, there is a table header for 'Active SSID', 'Security Type', and 'Passphrase'.

Active SSID	Security Type	Passphrase
-------------	---------------	------------

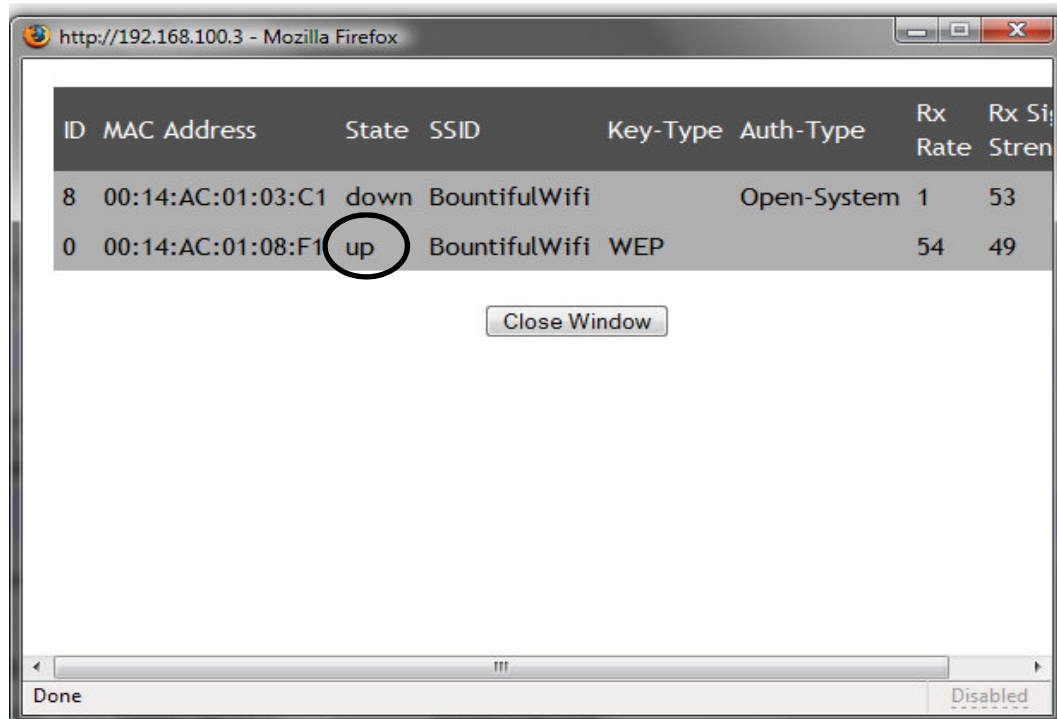
Validate Connection

Scroll down to Wireless
and click on View Wireless
Clients



Validate Connection

Notice that the MAC address of the Bridge state is UP



ID	MAC Address	State	SSID	Key-Type	Auth-Type	Rx Rate	Rx Signal
8	00:14:AC:01:03:C1	down	BountifulWifi		Open-System	1	53
0	00:14:AC:01:08:F1	up	BountifulWifi	WEP		54	49

Close Window

Done Disabled

WDS

Note: No changes will be made to the Root access point, only to the router being set up as a Bridge

WDS

The router is now set up in
Bridge mode