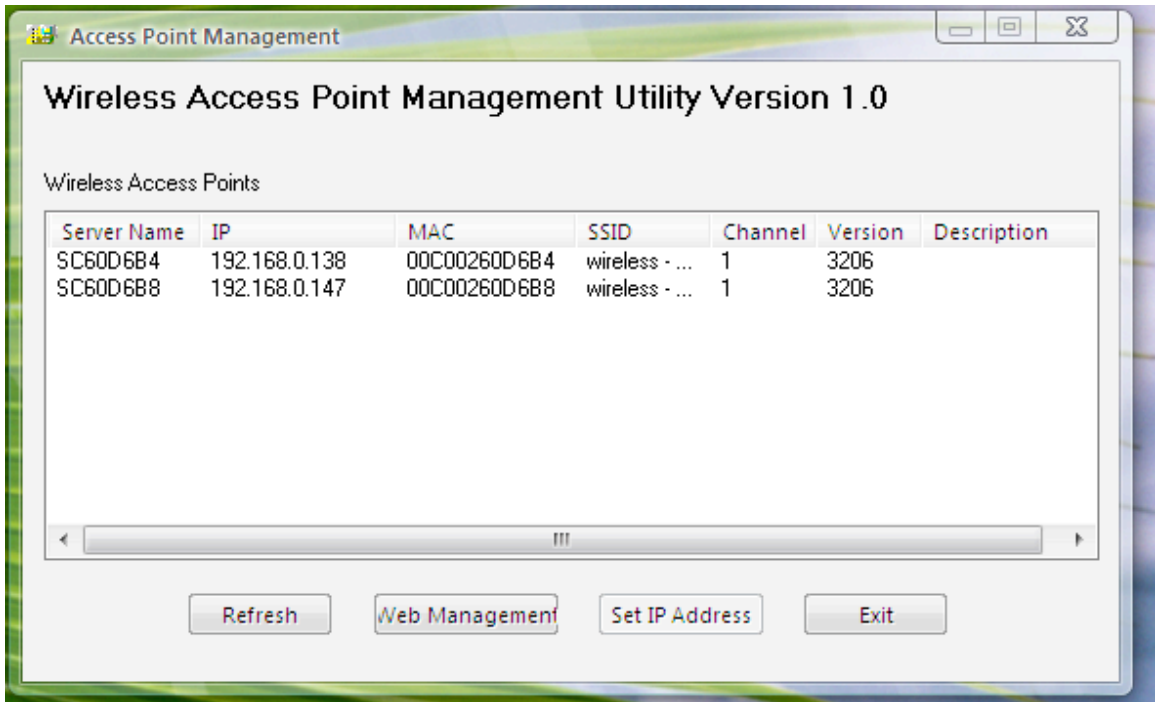
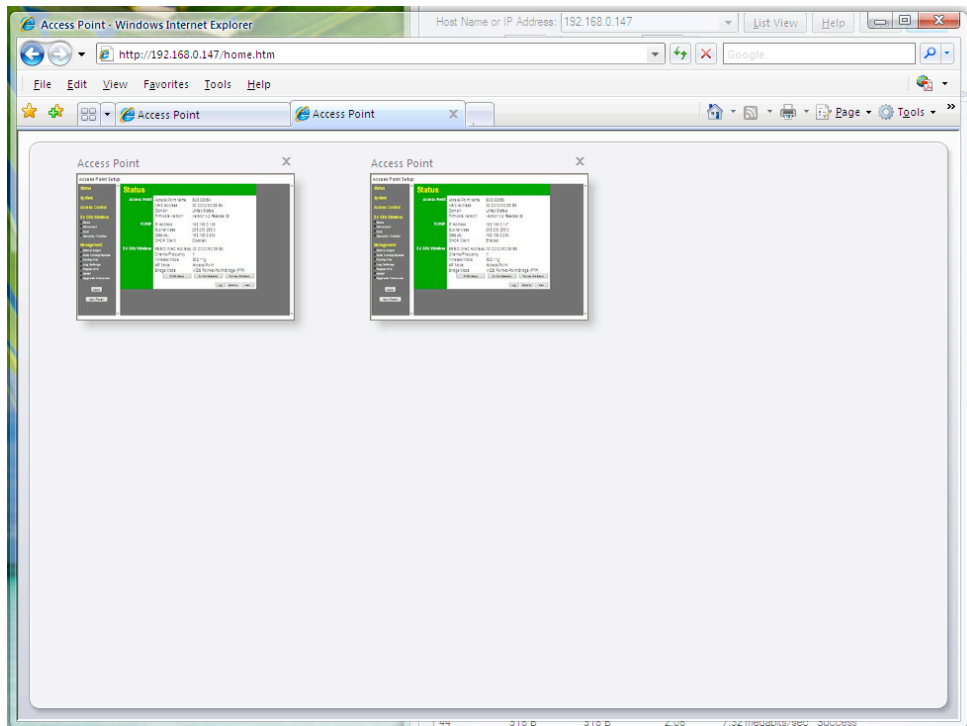


- 1) Using the 8424 Access Point Tool, identify and document your Access point MAC addresses, channel, Firmware version and IP address.



- 2) Use your web browser to log into each Access point. – We recommend using a tabbed browser like Safari, IE or FireFox so that you can easily see setup pages for both access points for comparison of each parameter shown below.



3) For Bridge to Bridge setup, we configured one AP for a fixed IP address on the LAN we wish to bridge. Set domain for USA, Set WDS PTP, Insert remote WDS MAC, Set basic rate for OFDM, Set mode for 802.11g, and Set Channel for like channel.

The screenshot displays the 'Access Point Setup' web interface. The browser window shows the URL 'http://192.168.0.138/home.htm'. The interface is divided into a left sidebar with navigation menus and a main content area. The sidebar includes sections for Status, System, Access Control, 2.4 GHz Wireless (with sub-items: Basic, Advanced, QoS, Security Profiles), and Management (with sub-items: Admin Login, Auto Config/Update, Config File, Log Settings, Rogue APs, SNMP, Upgrade Firmware). At the bottom of the sidebar are 'Logout' and 'Apply/Restart' buttons.

The main content area is titled 'Status' and features a green header. It contains a table of configuration parameters:

Section	Parameter	Value
Access Point	Access Point Name	SC60D6B4
	MAC Address	00:C0:02:60:D6:B4
	Domain	United States
	Firmware Version	Version 3.2 Release 06
TCP/IP	IP Address	192.168.0.138
	Subnet Mask	255.255.255.0
	Gateway	192.168.0.254
	DHCP Client	Disabled
2.4 GHz Wireless	BSSID (MAC Address)	00:C0:02:60:D6:B4
	Channel/Frequency	1
	Wireless Mode	802.11g
	AP Mode	Access Point
	Bridge Mode	WDS Point-to-Point Bridge (PTP)

Below the table are three buttons: 'Profile Status', '2.4 GHz Statistics', and 'Remote APs Status'. At the bottom right of the main content area are 'Log', 'Stations', and 'Help' buttons.

# Basic Settings - 2.4 GHz

## Operation

Wireless Mode: 802.11g

AP Mode: Access Point

Remote AP  
MAC Address:

Bridge Mode: WDS Point-to-Point Bridge (PTP)

PTP Bridge AP  
MAC Address: 00:C0:02:60:D6:B4

In PTMP mode, only allow specified APs

## Parameters

Channel No: 1

Current Channel No: 1

The screenshot shows a web browser window with the URL <http://192.168.0.147/home.htm>. The page title is "Access Point Setup". On the left is a navigation menu with categories: Status, System, Access Control, 2.4 GHz Wireless (with sub-items: Basic, Advanced, QoS, Security Profiles), Management (with sub-items: Admin Login, Auto Config/Update, Config File, Log Settings, Rogue APs, SNMP, Upgrade Firmware), and Logout. At the bottom of the menu are "Apply/Restart" and "Logout" buttons. The main content area is titled "Status" and contains a table of system information:

Access Point	
Access Point Name	SC60D6B8
MAC Address	00:C0:02:60:D6:B8
Domain	United States
Firmware Version	Version 3.2 Release 06

TCP/IP	
IP Address	192.168.0.147
Subnet Mask	255.255.255.0
Gateway	192.168.0.254
DHCP Client	Enabled

2.4 GHz Wireless	
BSSID (MAC Address)	00:C0:02:60:D6:B8
Channel/Frequency	1
Wireless Mode	802.11g
AP Mode	Access Point
Bridge Mode	WDS Point-to-Point Bridge (PTP)

Below the table are buttons for "Profile Status", "2.4 GHz Statistics", and "Remote APs Status". At the bottom right of the status area are "Log", "Stations", and "Help" buttons.

# Advanced Settings - 2.4 GHz

## Basic Rate

Basic Rate Selection:

## Options

- Worldwide Mode (802.11d)
- XR (eXtended Range)
- Network Integrity Check

## WMM

- Enable WMM (Wi-Fi Multimedia) Support
  - No Acknowledgement

## Parameters

Disassociated Timeout  Minutes ( 1 ~ 99 )  
Fragmentation Length  ( 256 ~ 2346; Default 2346 )  
Beacon Interval  ( 20 ~ 1000; Default 100 )  
RTS/CTS Threshold  ( 256 ~ 2346; Default 2346 )  
Preamble Type   
Output Power Level   
Antenna Selection:

## 802.11b

Protection Type  CTS-only  RTS-CTS  
Short Slot Time  Enable  Disable  
Protection Mode   
Protection Rate

- 4) Once configured and setup in the desired operating location, use a throughput tool like Ws\_pingpro to test.

The screenshot shows the WS\_Ping ProPack application window. The configuration is as follows:

- Host Name or IP Address: 192.168.0.147
- Packet Count: 50
- Packet size: 1024
- Timeout (ms): 1000
- Delay (ms): 1000
- TCP:

The test results are summarized as: 50 packets, 54576 bytes in 195 ms, average: 2.23 megabits/sec median: 2.73 megabits/sec

Pkt	Sent	Rec	Time	Throughput	Status
1	56 B	56 B	6.05	149.33 kilobits/sec	Success
2	76 B	76 B	4.06	304.00 kilobits/sec	Success
3	96 B	96 B	2.04	768.00 kilobits/sec	Success
4	116 B	116 B	3.09	618.66 kilobits/sec	Success
5	136 B	136 B	2.04	1.08 megabits/sec	Success
6	156 B	156 B	2.08	1.24 megabits/sec	Success
7	176 B	176 B	2.06	1.40 megabits/sec	Success
8	196 B	196 B	5.03	627.20 kilobits/sec	Success
9	216 B	216 B	2.07	1.72 megabits/sec	Success
10	236 B	236 B	4.04	944.00 kilobits/sec	Success
11	256 B	256 B	2.09	2.04 megabits/sec	Success
12	276 B	276 B	3.06	1.47 megabits/sec	Success
13	296 B	296 B	6.07	789.33 kilobits/sec	Success
14	316 B	316 B	3.05	1.68 megabits/sec	Success
15	336 B	336 B	5.04	1.07 megabits/sec	Success
16	356 B	356 B	2.09	2.84 megabits/sec	Success
17	376 B	376 B	2.07	3.00 megabits/sec	Success
18	396 B	396 B	2.05	3.16 megabits/sec	Success
19	416 B	416 B	7.02	950.85 kilobits/sec	Success
20	436 B	436 B	2.06	3.48 megabits/sec	Success
21	456 B	456 B	4.05	1.82 megabits/sec	Success
22	476 B	476 B	3.01	2.53 megabits/sec	Success
23	496 B	496 B	1.02	7.93 megabits/sec	Success
24	516 B	516 B	3.05	2.75 megabits/sec	Success
25	536 B	536 B	2.06	4.28 megabits/sec	Success
26	556 B	556 B	3.07	2.96 megabits/sec	Success
27	576 B	576 B	2.08	4.60 megabits/sec	Success
28	596 B	596 B	3.08	3.17 megabits/sec	Success
29	616 B	616 B	4.04	2.46 megabits/sec	Success
30	636 B	636 B	4.04	2.54 megabits/sec	Success
31	656 B	656 B	6.03	1.74 megabits/sec	Success
32	676 B	676 B	5.01	2.16 megabits/sec	Success
33	696 B	696 B	2.04	5.56 megabits/sec	Success
34	716 B	716 B	4.02	2.96 megabits/sec	Success
35	736 B	736 B	5.01	2.35 megabits/sec	Success
36	756 B	756 B	5.02	2.41 megabits/sec	Success
37	776 B	776 B	2.07	6.20 megabits/sec	Success
38	796 B	796 B	3.04	4.24 megabits/sec	Success
39	816 B	816 B	2.09	6.52 megabits/sec	Success
40	836 B	836 B	2.08	6.68 megabits/sec	Success
41	856 B	856 B	5.01	2.73 megabits/sec	Success
42	876 B	876 B	3.05	4.67 megabits/sec	Success
43	896 B	896 B	4.00	3.58 megabits/sec	Success
44	916 B	916 B	2.06	7.32 megabits/sec	Success
45	936 B	936 B	3.03	4.99 megabits/sec	Success
46	956 B	956 B	3.04	5.09 megabits/sec	Success
47	976 B	976 B	4.07	3.90 megabits/sec	Success
48	996 B	996 B	4.00	3.98 megabits/sec	Success
49	1,016 B	1,016 B	2.08	8.12 megabits/sec	Success
50	1,024 B	1,024 B	7.01	2.34 megabits/sec	Success