

Chapter 5 Monitoring

Controller

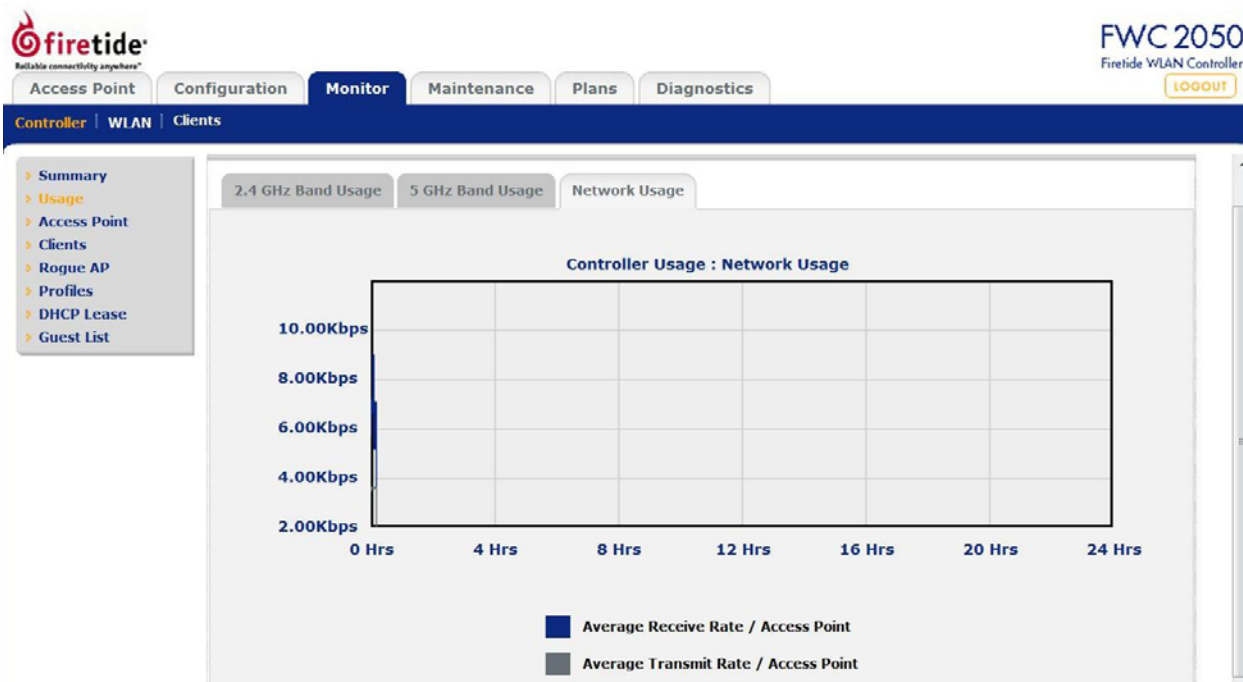
Summary

The screenshot displays the Firetide FWC 2050 Controller Monitor interface. The top navigation bar includes tabs for Access Point, Configuration, Monitor (selected), Maintenance, Plans, and Diagnostics. The main content area is titled 'Controller | WLAN | Clients' and features a sidebar menu on the left with options: Summary, Usage, Access Point, Clients, Rogue AP, Profiles, DHCP Lease, and Guest List. The main content is divided into four panels:

- Network Status:** A table showing the status of managed Access Points and Clients.
- Rogue Access Points:** A summary of detected rogue access points.
- Wireless Clients:** A table showing the count of wireless clients connected to the network.
- Network Info:** A list of system information including firmware version, uptime, and last configuration changes.

This screen displays a summary of the current managed Access Point status, rogue access points detected, current wireless stations connected, FWC2050 System Information and Network Usage. Clicking on the individual windows will lead to a new screen showing greater detail.

- Up:** Managed Access Points running properly.
- Down:** Number of managed Access Points which cannot be pinged.
- Critical:** Number of managed Access Points which can be pinged but cannot be logged in or device is different from the one which was configured.
- Major:** Number of managed Access Points whose configuration differs from the one which is set on the FWC2050. This is mostly owing to Access Point having an unsupported software version running or configuration changes were done on WMS when Access Point was Down/Offline.
- Rogue AP Current:** The number of unique rogue/neighbor Access Point bssid which can be observed now.
- Rogue AP Count 24hrs:** The number of unique rogue/neighbor Access Point bssid observed over the last 24 hrs.
- Wireless Clients:** This section displays count of Current Wireless Stations of managed Access Points.
- FWC2050 Firmware Version:** Current FWC2050 firmware version.
- Controller Uptime:** Time since last controller restart.
- Last Reboot:** When was the FWC2050 rebooted last time.
- Last Configuration Change:** When last configuration change was done on the FWC2050.
- Last Channel Allocation:** When last automatic channel Allocation was performed.
- Last Admin Login:** When Admin logged in last time.



This shows the transmit, receive, and network usage rates for the AP.

Access Point List

Select	Name	Location	Status	MAC	IP	Model	Building	Floor	2.4 GHz Channel	5 GHz Channel	Uptime
<input checked="" type="radio"/>	ServerRoom	Server Room	healthy	00:18:c2:00:21:e8	10.0.3.162	HOTPOINTS100	Firetide	Floor-1	6 / 2.437Ghz	36 / 5.180Ghz	1 hours, 29 mins, 23 secs
<input type="radio"/>	BoardRoom	Board Room	healthy	00:18:c2:00:21:e9	10.0.3.166	HOTPOINTS100	Firetide	Floor-1	11 / 2.462Ghz	149 / 5.745Ghz	1 hours, 28 mins, 36 secs
<input type="radio"/>	TrainingRoom	Training Room	healthy	00:18:c2:00:21:d5	10.0.3.167	HOTPOINTS100	Firetide	Floor-1	11 / 2.462Ghz	36 / 5.180Ghz	1 hours, 27 mins, 8 secs
<input type="radio"/>	LouisColumn	Louis's Column	healthy	00:18:c2:00:21:d8	10.0.3.168	HOTPOINTS100	Firetide	Floor-1	1 / 2.412Ghz	48 / 5.240Ghz	1 hours, 28 mins, 54 secs
<input type="radio"/>	Angelashall	Angelas Hallway	healthy	00:18:c2:00:21:c2	10.0.3.199	HOTPOINTS100	Firetide	Floor-1	6 / 2.437Ghz	44 / 5.220Ghz	1 hours, 27 mins, 53 secs
<input type="radio"/>	Maui	Maui meeting room	healthy	00:18:c2:00:21:e6	10.0.3.100	HOTPOINTS100	Firetide	Floor-1	1 / 2.412Ghz	157 / 5.785Ghz	1 hours, 28 mins, 5 secs
<input type="radio"/>	CSLab1		healthy	00:18:c2:01:21:ba	10.0.3.102	HOTPOINTS200	Firetide	Floor-1	1 / 2.412Ghz	40 / 5.200Ghz	1 hours, 29 mins, 23 secs
<input type="radio"/>	FTAPA21A		major	00:18:c2:20:02:aa	10.0.3.112	HOTPOINT4100	Firetide	Floor-1	NA	NA	NA

This shows the status of each AP under management.

- Name:** Displays name of Access Point.
- Location:** Displays location of Access Point.
- Status:** Displays status of Access Point.
- MAC Address:** Displays MAC Address of Access Point.
- IP address:** Displays management IP address used by the FWC2050 to connect to Access Point.
- Model:** Displays Access Point Model.
- Building:** Displays building name where Access Point is located.
- Floor:** Displays floor where Access Point is located.
- 2.4 GHz channel:** Displays 2.4 GHz channel configured on Access Point.
- 5 GHz channel:** Displays 5 GHz channel configured on Access Point.
- Uptime:** Shows elapsed time since last AP reboot.

Clients

The screenshot shows the Firetide FWC 2050 web interface. The top navigation bar includes 'Access Point', 'Configuration', 'Monitor', 'Maintenance', 'Plans', and 'Diagnostics'. The 'Monitor' tab is active. Below the navigation, there are tabs for 'Controller', 'WLAN', and 'Clients', with 'Clients' selected. A left-hand menu contains options like 'Summary', 'Usage', 'Access Point', 'Clients', 'Rogue AP', 'Profiles', 'DHCP Lease', and 'Guest List'. The main content area displays a table header for 'Clients' with columns: Select, MAC, IP, SSID, Bssid, Security, AP-Name, AP-IP, Building, Floor, and Location.

This shows connected clients.

Rogue AP List

The screenshot shows the 'Rogue AP' list in the Firetide FWC 2050 web interface. The table lists detected rogue APs with the following columns: Select, MAC, SSID, Channel, Privacy, Last Beacon, Category, and Known/Unknown. The first row is highlighted in blue, indicating it is selected.

Select	MAC	SSID	Channel	Privacy	Last Beacon	Category	Known/Unknown
<input checked="" type="radio"/>	00:26:f2:8b:20:30	NG_11a	40	Unsecured	Wed Dec 31 16:49:19 1969	Neighbor	Unknown
<input type="radio"/>	00:26:f2:8b:2c:00	NG_11g_LoadBalance	6	Unsecured	Wed Dec 31 16:49:19 1969	Neighbor	Unknown
<input type="radio"/>	00:26:f2:8b:20:37	NG_11a-7	40	Unsecured	Wed Dec 31 16:49:19 1969	Neighbor	Unknown
<input type="radio"/>	00:26:f2:8b:20:20	NG_11g	1	Unsecured	Wed Dec 31 16:49:19 1969	Neighbor	Unknown
<input type="radio"/>	00:26:f2:8b:2c:10	NG_11a_LoadBalance	153	Unsecured	Wed Dec 31 16:49:19 1969	Neighbor	Unknown
<input type="radio"/>	00:26:f2:8b:20:21	NG_11g-1	1	Unsecured	Wed Dec 31 16:33:19 1969	Neighbor	Unknown
<input type="radio"/>	00:26:f2:8b:20:22	NG_11g-2	1	Unsecured	Wed Dec 31 16:49:19 1969	Neighbor	Unknown
<input type="radio"/>	00:26:f2:8b:20:23	NG_11g-3	1	Unsecured	Wed Dec 31 16:49:19 1969	Neighbor	Unknown
<input type="radio"/>	00:26:f2:8b:20:24	NG_11g-4	1	Unsecured	Wed Dec 31 16:49:19 1969	Neighbor	Unknown
<input type="radio"/>	00:26:f2:8b:20:25	NG_11g-5	1	Unsecured	Wed Dec 31 16:49:19 1969	Neighbor	Unknown
<input type="radio"/>	00:26:f2:8b:20:26	NG_11g-6	1	Unsecured	Wed Dec 31 16:37:19 1969	Neighbor	Unknown
<input type="radio"/>	00:26:f2:8b:20:27	NG_11g-7	1	Unsecured	Wed Dec 31 16:49:19 1969	Neighbor	Unknown
<input type="radio"/>	00:26:f2:8b:26:00	NG_11g_LoadBalance	6	Unsecured	Wed Dec 31 16:49:19 1969	Neighbor	Unknown
<input type="radio"/>	00:26:f2:8b:26:10	NG_11a_LoadBalance	149	Unsecured	Wed Dec 31 16:49:19 1969	Neighbor	Unknown
<input type="radio"/>	00:18:c2:04:0b:3b	NewFTGuestAccess	11	Secured	Wed Dec 31 16:49:19 1969	Neighbor	Unknown
<input type="radio"/>	00:18:c2:00:01:97	4500WPA2	1	Secured	Wed Dec 31 16:49:19 1969	Neighbor	Unknown

This shows a list of detected rogue APs. You can double-click on an AP to see a detailed view. The shaded region (at right in this example) shows the estimated location of the rogue AP.

The screenshot shows a detailed view of a rogue AP. The title reads "00:26:f2:8b:20:30 is found at Building-1 on floor 1". A map displays a shaded region representing the estimated location of the AP. A table on the right shows the "Known/Unknown" status for various categories.

Category	Known/Unknown
All	All
r	Unknown
r	Unknown
r	Unknown
r	Unknown
r	Unknown
r	Unknown
r	Unknown
r	Unknown
r	Unknown
r	Unknown

Profiles

SSID	Security	Radio Mode	Status	Group Name
HotPoint5100g	Open	802.11b/bg/ng	Active	basic
HotPoint5100a	Open	802.11a/na	Active	basic
NG_11g	Open	802.11b/bg/ng	Inactive	Group-1
NG_11a	Open	802.11a/na	Inactive	Group-1
NG_11g-0	Open	802.11b/bg/ng	Inactive	Group-2
NG_11a-0	Open	802.11a/na	Inactive	Group-2

- SSID:** Wireless SSID configured for that Profile.
- Security:** Open/wep/wpa/wpa2 authentication mode of security.
- Mode:** 802.11 b/bg/ng or 802.11 a/na mode for security profile.
- Status:** Indicates usage of that profile.
- Group Name:** Name assigned to the group.

DHCP Lease

Host Name	MAC	IP	End Time	End Date	VLAN
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The DHCP Lease screen displays current DHCP clients which have been allocated IP addresses.

- Host Name:** The host name of the client, if possible to resolve.
- IP:** IP address allocated to DHCP client by the FWC2050.
- End Time:** The DHCP Lease End time for DHCP client.
- End Date:** The DHCP Lease End date for DHCP client.
- MAC:** The Ethernet MAC address of DHCP client.
- VLAN:** VLAN the Client is using to connect.

Use the **REFRESH** button to update client DHCP Lease display.

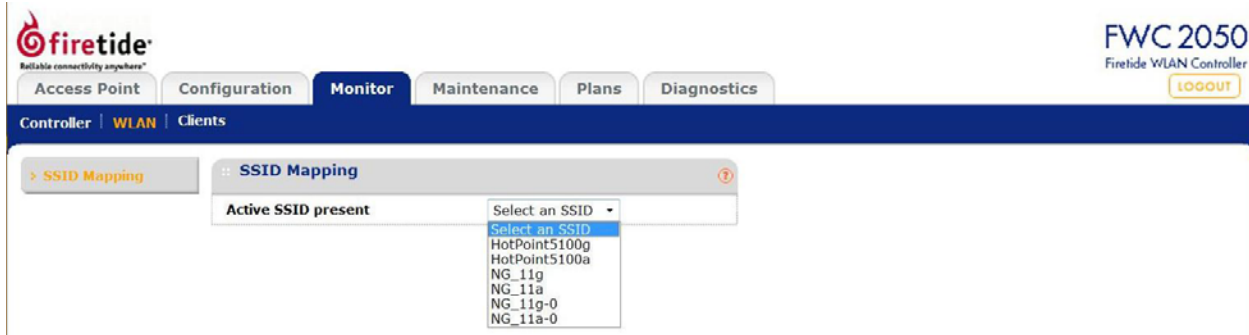
Guest List

IP	Email Address
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This shows IP address and email addresses (obtained during guest access login).

WLAN

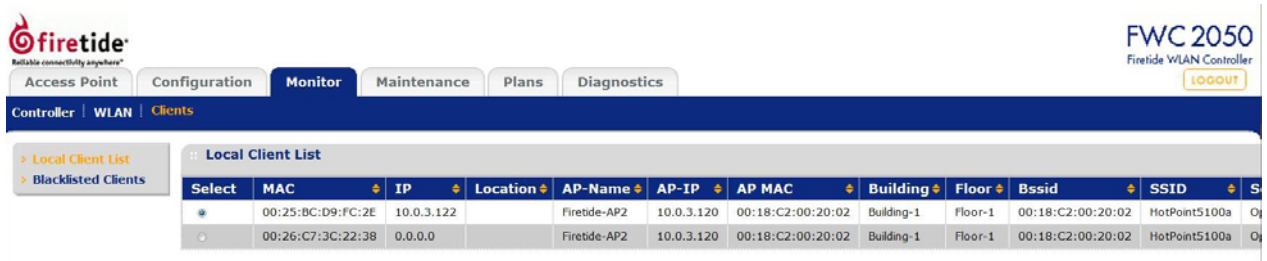
SSID Mapping



This shows the SSIDs detected within range of the AP network.

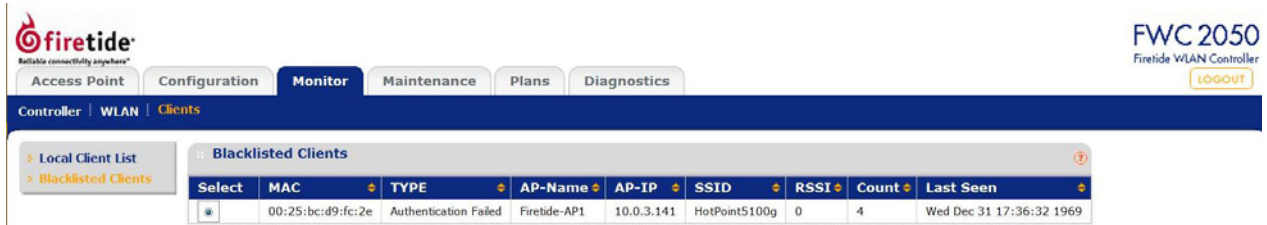
Clients

Local Client List



This screen shows connected clients.

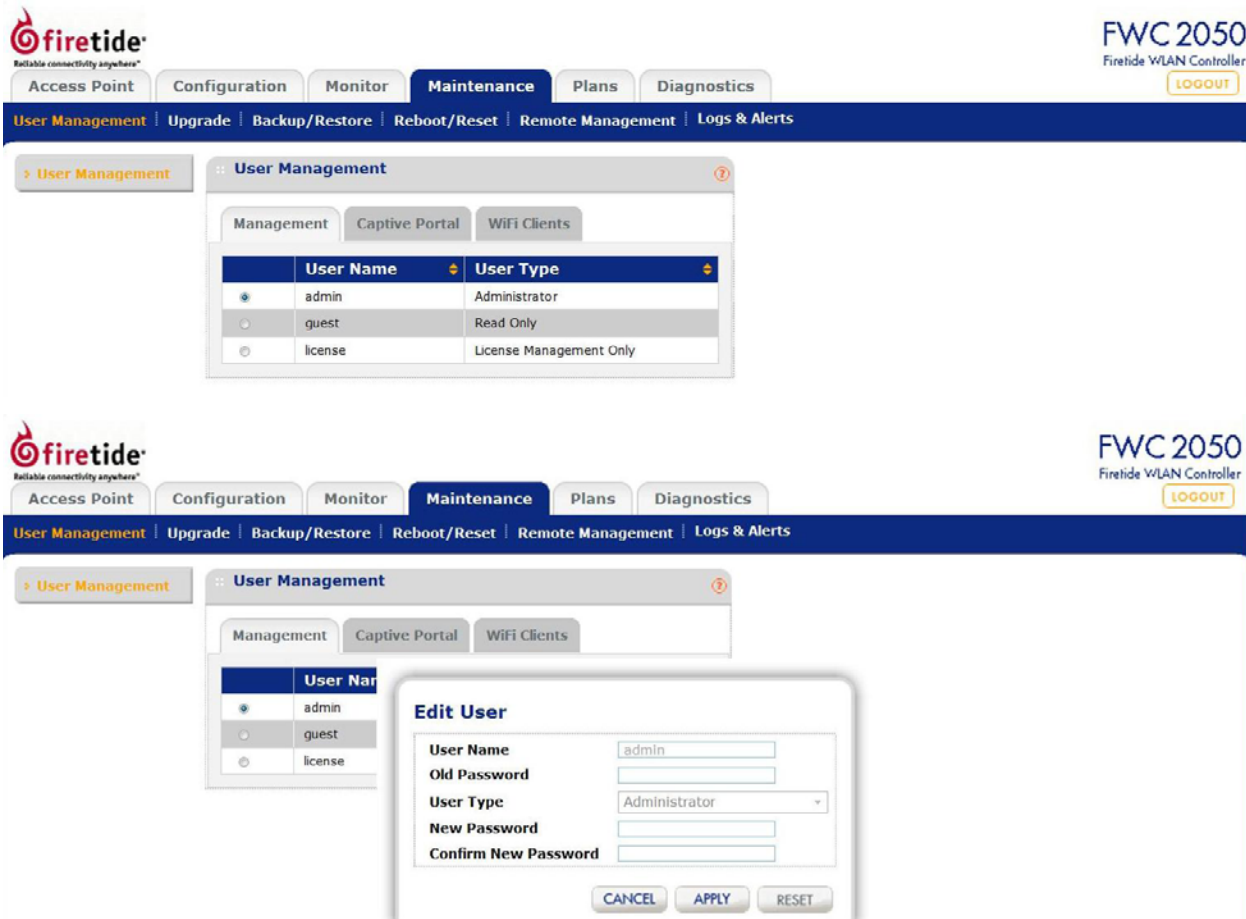
Blacklisted Clients



This screen shows blacklisted clients.

Chapter 6 Maintenance

User Management



This allows adding and removing FWC2050 administrative users. "admin" is the default user with administrative privileges and cannot be removed.

- User Name:** Add the name of the new user.
- Old Password:** Enter the old password to make changes.
- User Type:** Specify the type of access permitted to FWC2050 user Read-only/Administrative. A read-only user cannot make any configuration changes. He is allowed to see the all the statistics and configuration information.
- Password:** Type a new user password.
- Confirm Password:** Retype the new user password to confirm.