



User Guide

Wireless Access Points
with Cloud Manager



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Access Point Setup Guide

Set up your access point with Linksys Cloud Manager

Step 1

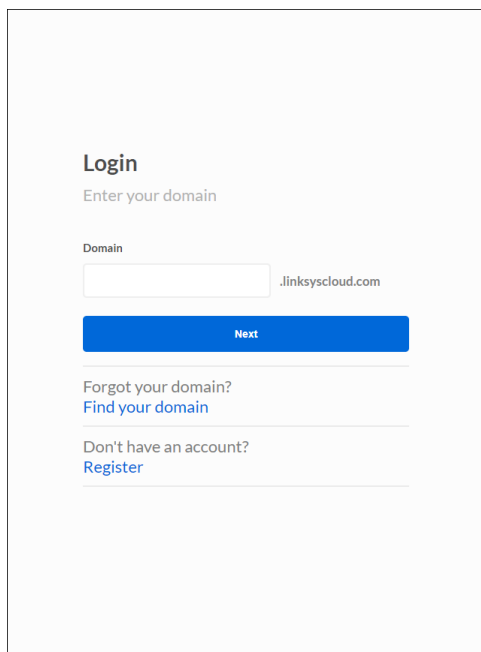
Make sure the access point is powered on and connected with an ethernet cable to a network with internet access. By factory default, the IP address is assigned by a DHCP server. If there is no DHCP server in your network, the default IP address is 192.168.1.252/255.255.255.0.

Log in to the access point's browser-based admin tool locally. Type in default username: admin, and password: admin. Click the Configure LAN Settings link. Change the IP address or VLAN so the access point can access the internet.

If the indicator LED is off, check that the AC power adapter, or PoE cable, is properly connected on both ends.

Step 2

Enter <http://Cloudmanager.Linksys.com> in a web browser to access the cloud dashboard. If you already have a Linksys Cloud Manager account, log in.

The screenshot shows the Linksys Cloud Manager login interface. At the top, it says "Login" followed by the instruction "Enter your domain". Below this is a "Domain" label and a text input field. To the right of the input field is a ".linksyscloud.com" label. A blue "Next" button is positioned below the input field. Underneath the button, there are two links: "Forgot your domain? Find your domain" and "Don't have an account? Register".

If not, create an account by completing the on-screen forms. Then, register the access point at the new account.



Create an account

Name

Chris

Surname

Genus

Phone number

 +1

Email

christopher.genus@linksys.com

Password

View

Use at least 8 characters.

☒ I agree to Linksys Cloud terms and conditions

Register

Already have an account?

Login

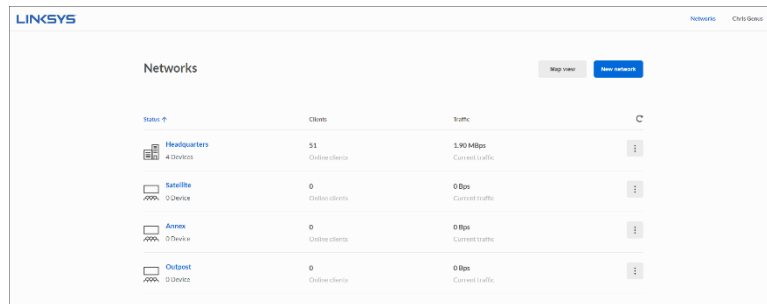
We'll send you a confirmation email. Click on the link and finish setting up your access point.



Cloud Management Interface

Once you are logged in to Cloudmanager.Linksys.com you can create and manage your networks.

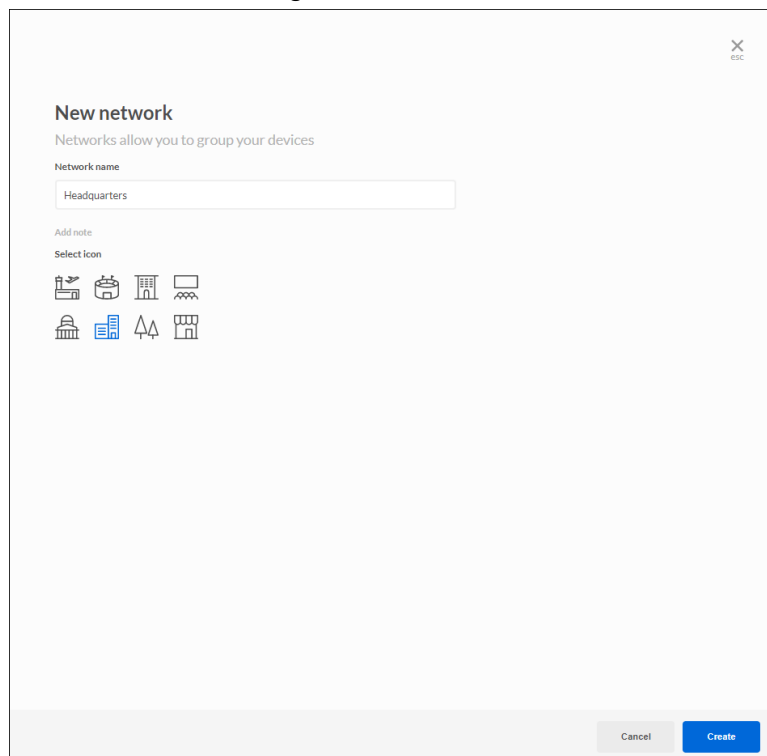
Networks



Status	Networks	Devices	Traffic	
	Headquarters	41 Devices	1.90 Mbps Current traffic	
	Satellite	0 Devices	0 Bps Current traffic	
	Annex	0 Devices	0 Bps Current traffic	
	Outpost	0 Devices	0 Bps Current traffic	

Create network

To create a new network, go to Networks and click *New Network*



New network

Networks allow you to group your devices

Network name

Headquarters

Add note

Select icon

Cancel Create



Choose a name for your network and add any descriptive notes about the network. Choose an icon to represent your network.


ESC

New network

Networks allow you to group your devices

Network name

Satellite

Note

Five people in Townsville

Cancel

Select icon



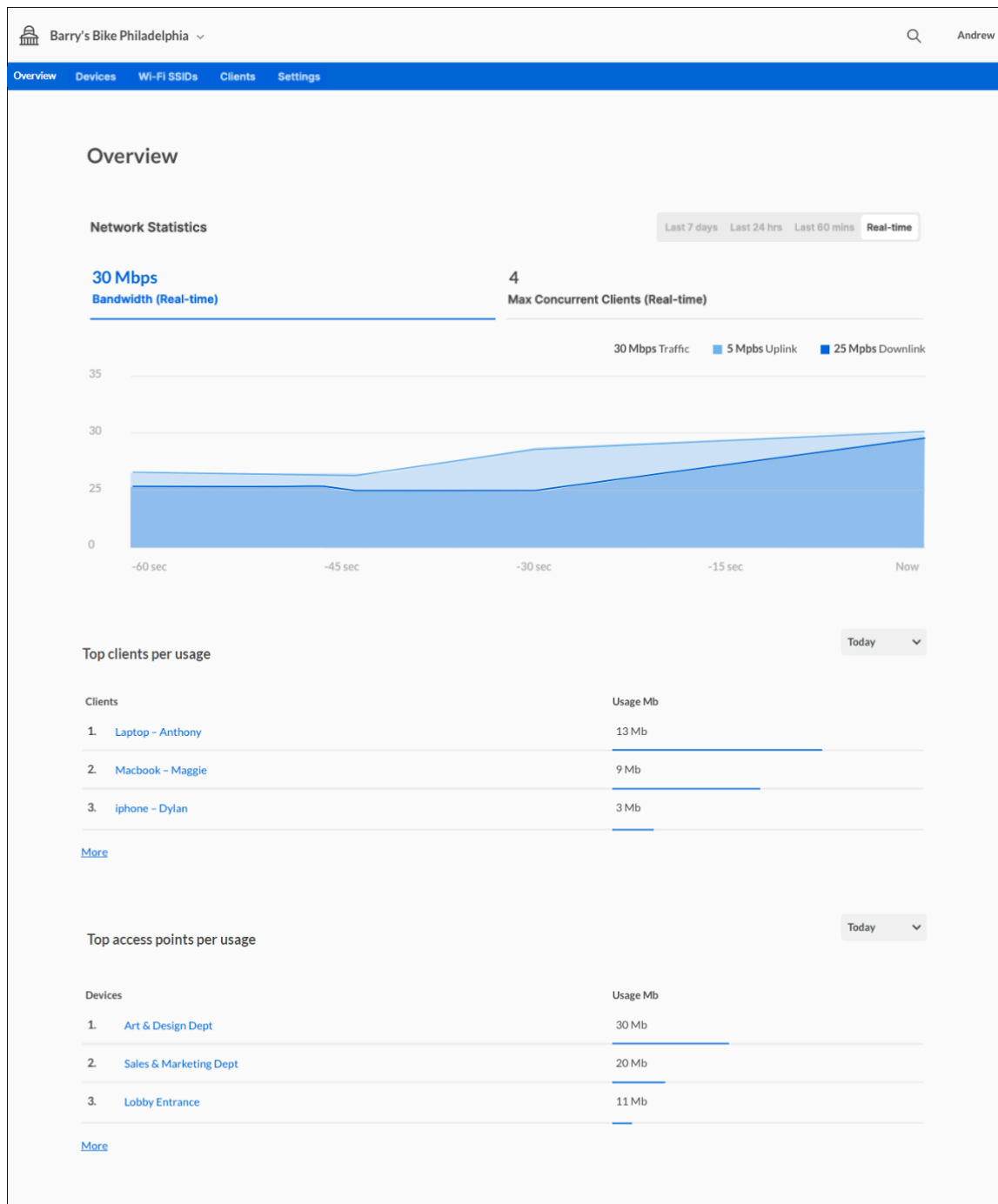


Cancel

Create



Overview



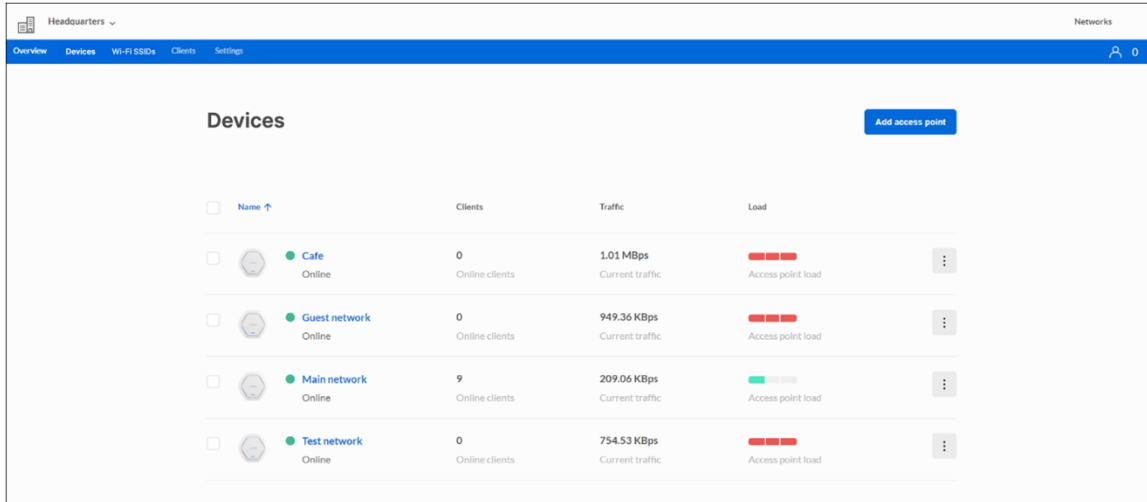
Overview provides information on a network, its access points, and client devices:

- Network stats
- Top clients per usage
- Top access points per usage
- Channel
- Access points on map



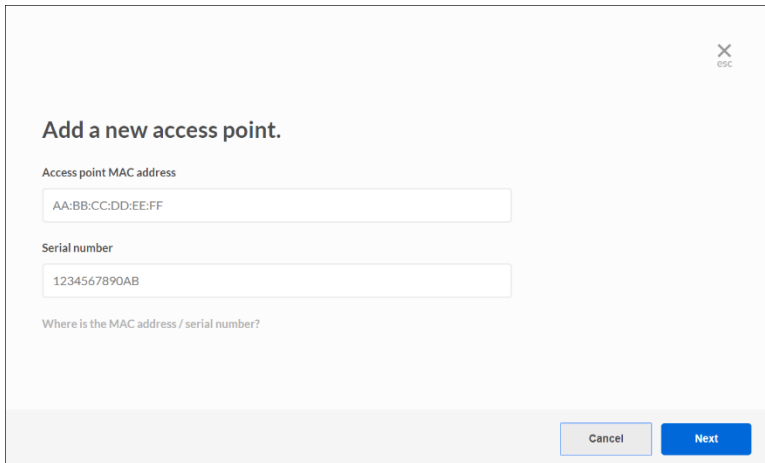
Devices

Go to Networks and click on a network name. Click on *Devices* in the menu bar to manage access points on your network.



☐	Name ↑	Clients	Traffic	Load	
☐	 Cafe Online	0 Online clients	1.01 MBps Current traffic	 Access point load	⋮
☐	 Guest network Online	0 Online clients	949.36 KBps Current traffic	 Access point load	⋮
☐	 Main network Online	9 Online clients	209.06 KBps Current traffic	 Access point load	⋮
☐	 Test network Online	0 Online clients	754.53 KBps Current traffic	 Access point load	⋮

To add a new access point to the network, click Add access point.



✕
ESC

Add a new access point.

Access point MAC address

AA:BB:CC:DD:EE:FF

Serial number

1234567890AB

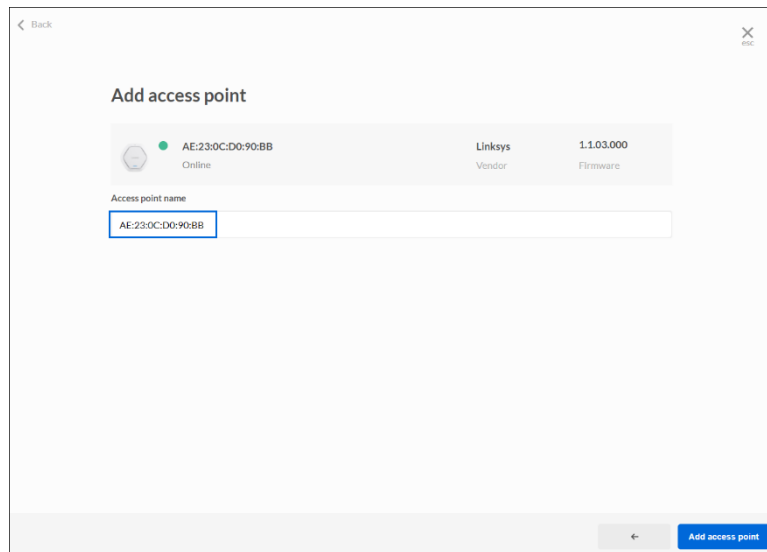
Where is the MAC address / serial number?

Cancel Next

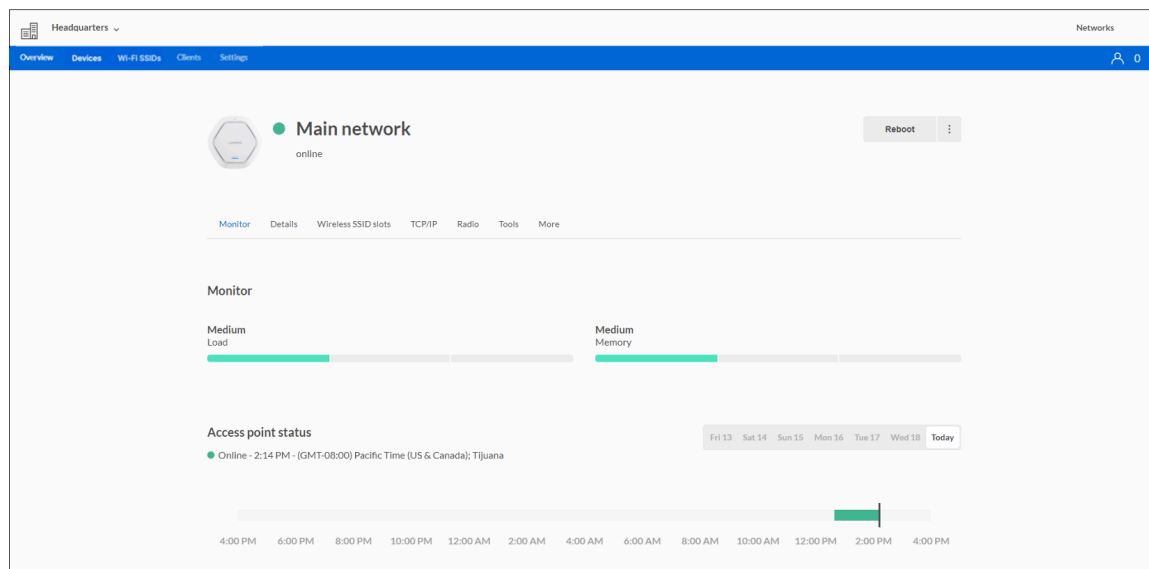
1. Connect your access point to the internet.
2. Enter the MAC address and serial number of the access point you want to add, then click Next.



Once the access point has been found, you can rename it and click the Add access point button.



Monitor



Load—Shows the access point's consumption of CPU load

Memory—Shows the access point's consumption of memory

Access point status—Shows the access point's status for the last 7 days

Device stats—Shows data about clients and traffic for the last 7 days

Connected clients—Shows the list of connected clients



Details

View whether the access point is connected to the cloud. See the current firmware version and check for updates. You can also see the MAC address, serial number, model number, hardware version, the name you gave it, any device notes or description, and the location set for the access point.

The screenshot shows the 'Details' page for the 'Main network'. The network is online. The details section includes:

- Connection status:** Connected to the cloud (indicated by a green dot).
- Hardware address:** 41:7E:E7:22:9E:12
- Serial:** FF78BF36AA0
- Vendor:** Linksys

Navigation tabs include Monitor, Details (selected), Wireless SSID slots, TCP/IP, Radio, Tools, and More. A 'Reboot' button is visible in the top right corner.

Wireless SSID slots

The screenshot shows the 'Wireless SSID slots' page. It displays a table of three configured SSIDs and an 'Add wireless SSID' button.

SSID	Authentication	Broadcast	Splash page	Bandwidth limit
First SSID Enabled	Open	4	Disabled	None upload / None download
Second SSID Enabled	WPA2	4	Disabled	None upload / None download
Third SSID Enabled	WPA2	4	Disabled	None upload / None download

Below the table, it indicates 'SSID slot available'.

To add a new SSID to the device, click Add wireless SSID and select one from the list.

Authentication—Shows whether the wireless name is open or requires a password

Broadcasting—Shows how many access points in the network are broadcasting the wireless name

Captive portal—Shows whether a captive portal is enabled or disabled

Bandwidth limit—Shows the bandwidth limit set for the SSID

Client bandwidth limit—Shows the bandwidth limit set per client connected to the SSID



Band selection—Shows whether the SSID is set to Dual Band or Single Band

TCP/IP

The screenshot shows the 'Main Network' configuration page with the 'TCP/IP' tab selected. The network status is 'online'. The configuration table is as follows:

Configure IP	Server IP
DHCP	192.168.0.5
Gateway	Subnet mask
192.168.0.1	255.255.255.0
Primary DNS server	Secondary DNS server
8.8.8.8	8.8.4.4
VLAN tagging	

Configure IP—Select Automatic Configuration or Static IP Address

IP Address—Enter an unused IP address from the address range used on your LAN

Gateway—Enter the gateway for IP Server

Subnet mask—Enter the subnet mask for the IP address

Primary DNS server—Enter the DNS Address

Secondary DNS server—Optional

VLAN tagging—Enter tag of your VLAN

Radio

The screenshot shows the 'Main network' configuration page with the 'Radio' tab selected. The network status is 'online'. The configuration is divided into two sections: Radio 2.4 GHz and Radio 5 GHz, both of which are 'On'.

Radio 2.4 GHz		Radio 5 GHz	
Radio mode	Channel width	Radio mode	Channel width
802.11 b/g/n	20 MHz	802.11 a/n/ac Mixed	80 MHz
Channel	TX power	Channel	TX power
Auto	22 dBm	Auto	22 dBm



Radio mode—Choose a radio mode

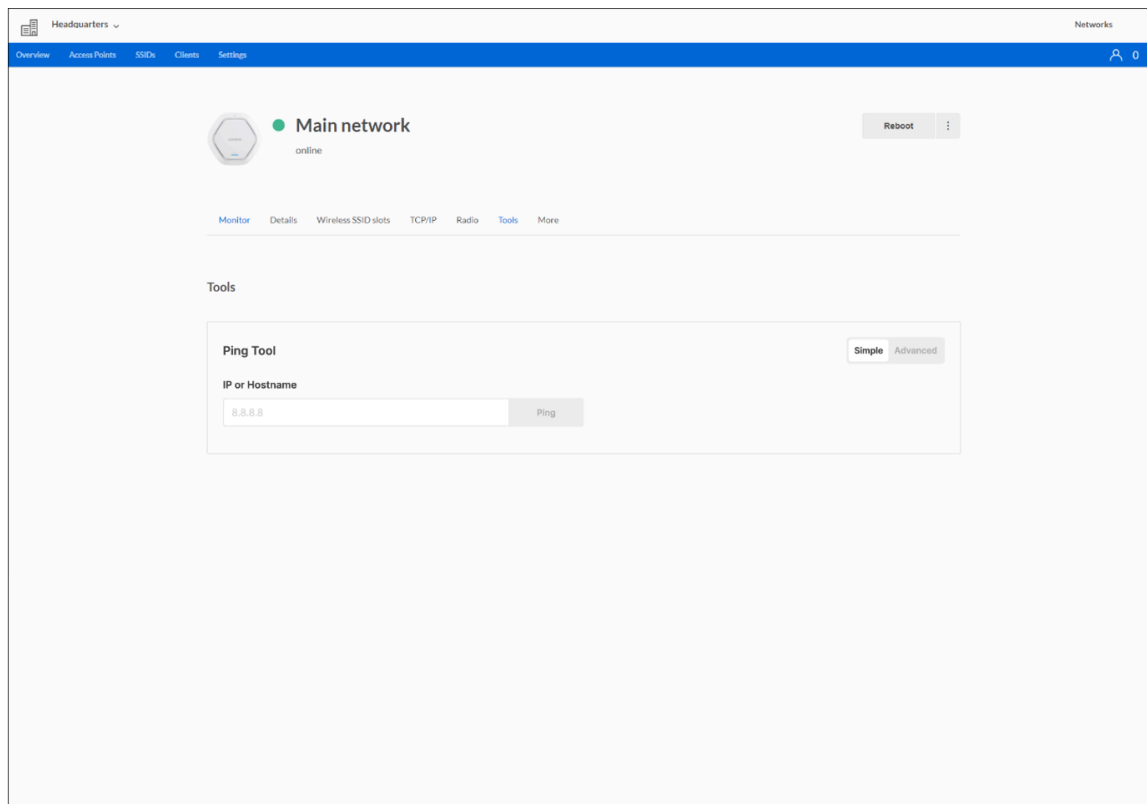
Channel width—Choose 20 MHz, 40 MHz, or 80 MHz

Channel—Choose Auto or select a specific channel

TX power—Choose the strength of the signal when access point is transmitting

MU-MIMO—Choose to enabled or disable MU-MIMO

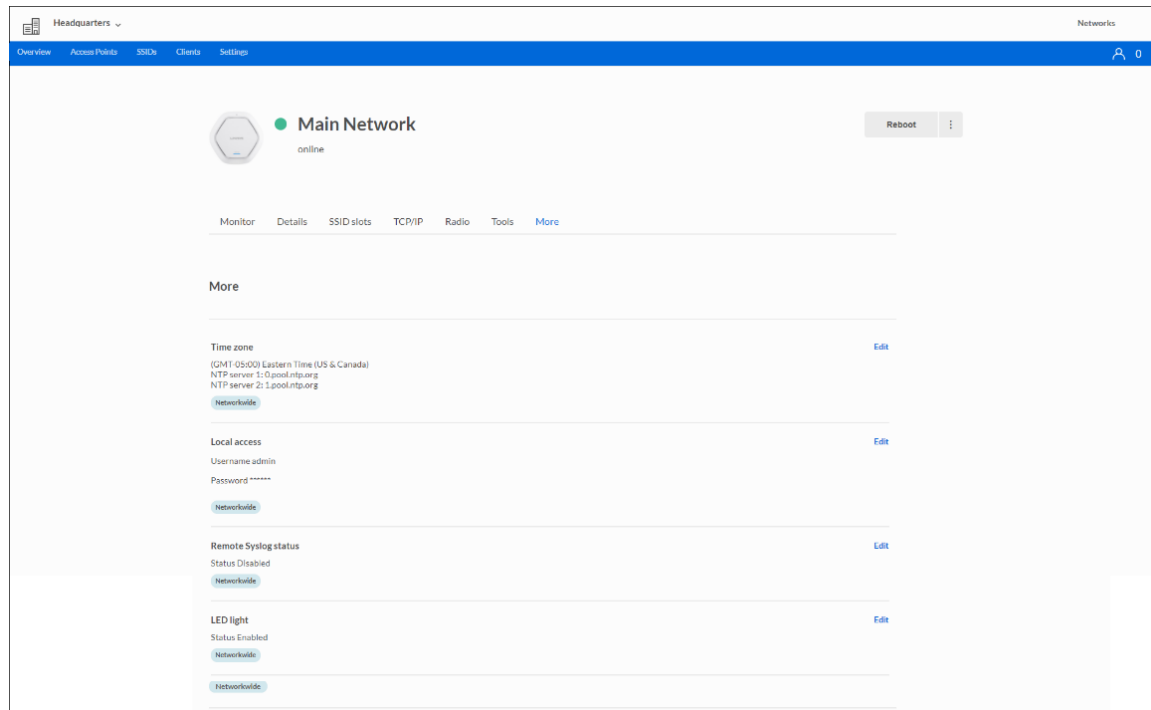
Tools



Ping tool—Determine the accessibility of a host on the network



More



Time zone—View and edit the device time zone

Local access credentials—The username and password for local access to device. Default is “admin”

Device local web server—Choose whether to allow local access to the device through a browser

Remote syslog—Decide whether to send logs to a syslog server and enter the server’s IP address

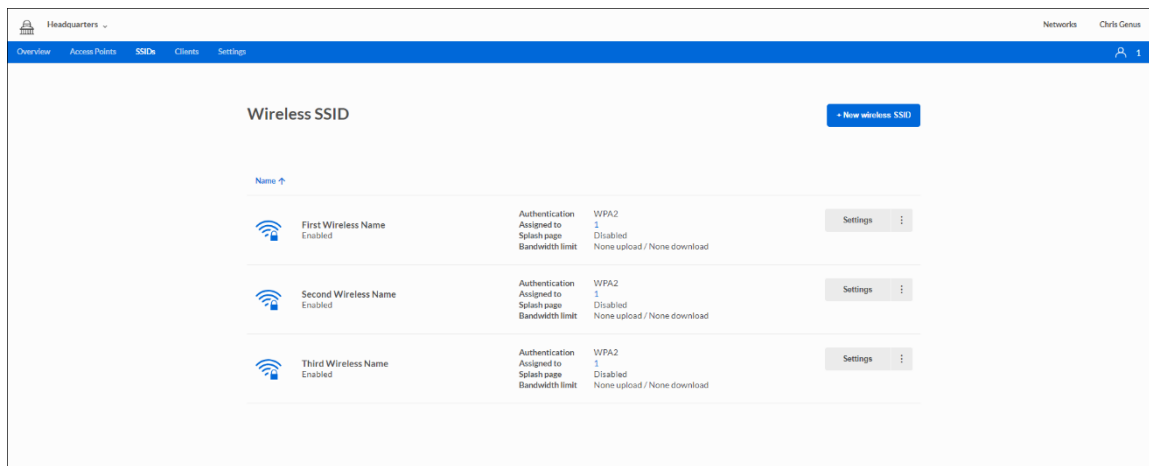
Auto configuration rollback—Choose whether to enable or disable auto configuration rollback

Access point LED—Device LED status



Wi-Fi SSIDs

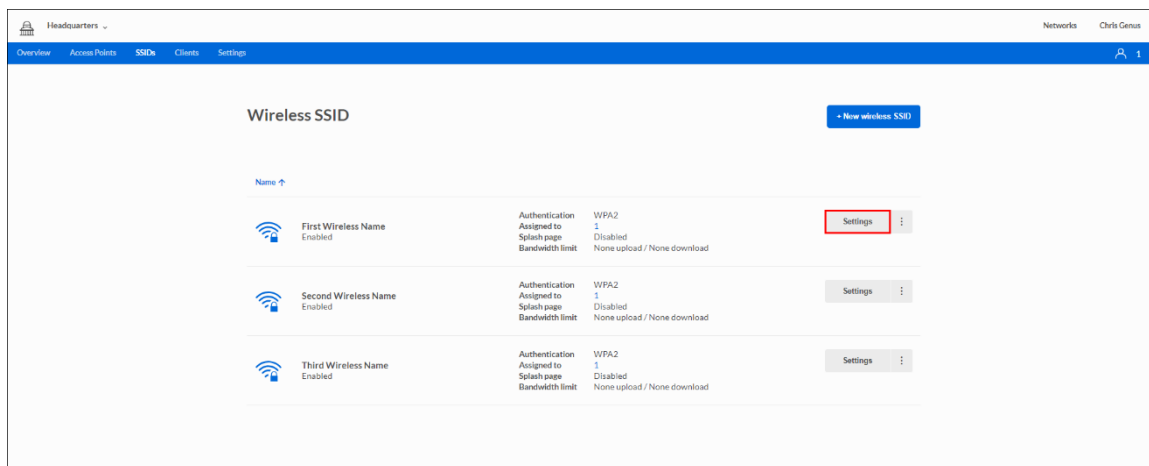
Create, view, and edit the SSIDs on your networks.



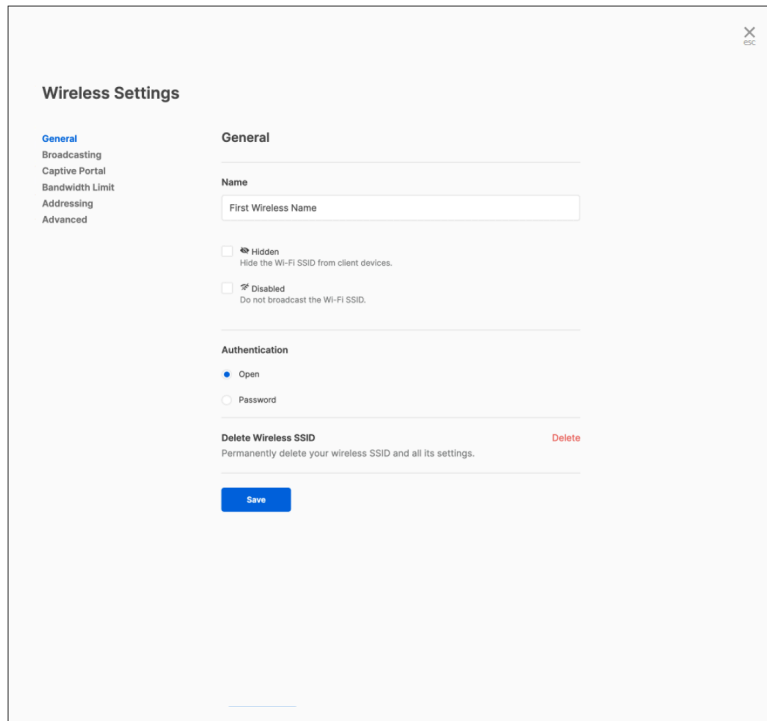
To create a new SSID, choose a network, click SSID and then + New wireless SSID.

SSID Settings

To edit an SSID's settings, click settings to the right of the SSID.



General



The screenshot shows the 'Wireless Settings' page with the 'General' tab selected. On the left is a sidebar menu with options: General (selected), Broadcasting, Captive Portal, Bandwidth Limit, Addressing, and Advanced. The main content area is titled 'General' and contains a 'Name' section with a text input field labeled 'First Wireless Name'. Below this are two checkboxes: 'Hidden' (unchecked) with the description 'Hide the Wi-Fi SSID from client devices.' and 'Disabled' (unchecked) with the description 'Do not broadcast the Wi-Fi SSID.'. The 'Authentication' section has two radio buttons: 'Open' (selected) and 'Password'. At the bottom, there is a 'Delete Wireless SSID' section with the text 'Permanently delete your wireless SSID and all its settings.' and a red 'Delete' link. A blue 'Save' button is at the bottom left.

Name—Choose a name of the SSID and decide whether to broadcast or hide it

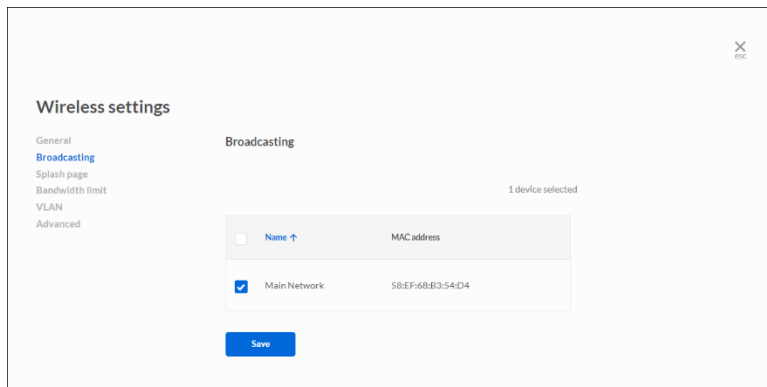
Authentication—Choose whether to protect the SSID with a password or allow all devices to connect. If using a password, choose a security type - either WPA2 or WPA2 Enterprise

Delete wireless name—Remove the SSID and all settings from the cloud

NOTE—Be sure to click the **Save** button when you are finished making changes

Broadcasting

Choose whether to broadcast the wireless names available on an access point.



The screenshot shows the 'Wireless settings' page with the 'Broadcasting' tab selected. The sidebar menu on the left includes: General, Broadcasting (selected), Splash page, Bandwidth limit, VLAN, and Advanced. The main content area is titled 'Broadcasting' and shows '1 device selected'. Below this is a table with two columns: 'Name' and 'MAC address'. The first row is 'Main Network' with MAC address '58:EF:A8:B3:54:D4' and is checked. A blue 'Save' button is at the bottom left.



Captive Portal

Wireless Settings

- General
- Broadcasting
- Captive Portal**
- Bandwidth Limit
- Addressing
- Advanced

Captive Portal

☐ Disabled
Captive portal is disabled.

☒ Linksys Cloud Captive Portal
Use the built-in cloud hosted splash page editor.

Anthony's Restaurant
Last edit Dec 15, 2020
[Edit Design](#)

Walled Garden
Add sites users can visit prior to authentication. ☒

Disable Auto Pop-Up
Prevent the automatic splash page pop-up on specific client devices. ☒

Client Session Timeout Advanced
12 Hours (Recommended) ▼
The client will be automatically disconnected when the session expires.

Client Idle Timeout Advanced
1 Hour (Recommended) ▼
The client will be automatically disconnected if it doesn't transmit data for the specified amount of time.

☐ External Captive Portal
Use a custom captive portal URL.

[Save](#)

Enabled/Disabled—Choose whether to send users to a splash page when connecting to the wireless name

Select splash page—Choose which splash page to display

Walled garden—Add sites users can visit prior to authenticating through the splash page

Disable auto pop-up—Prevent the splash page from displaying on specific client devices

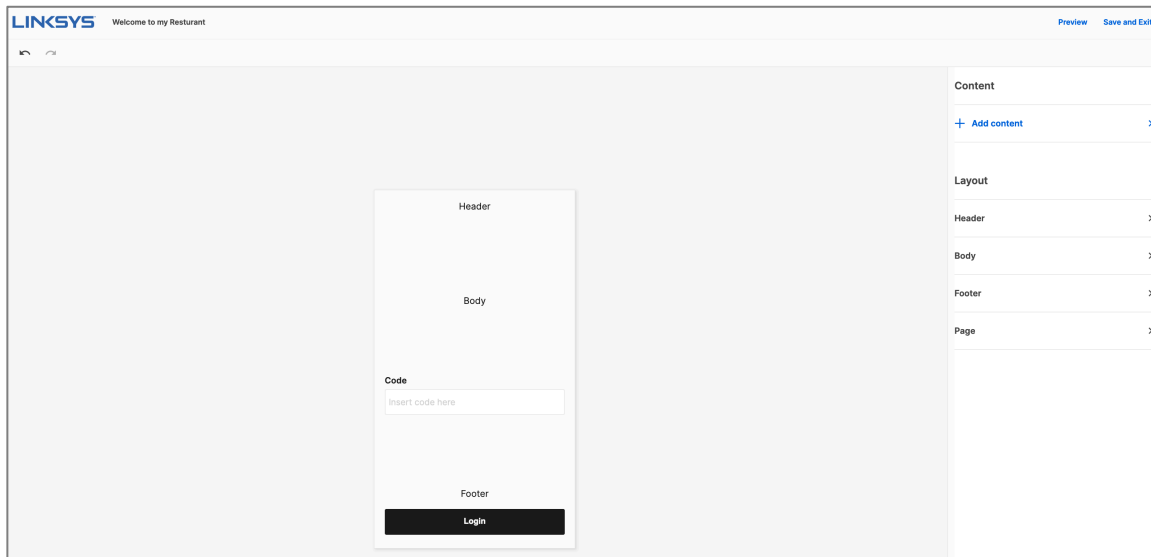
Client session timeout—Select amount of time before clients are disconnected

Client idle timeout—Select amount of time before clients are disconnected if inactive

External captive portal—Enter the URL for an external captive portal



Splash Page Editor



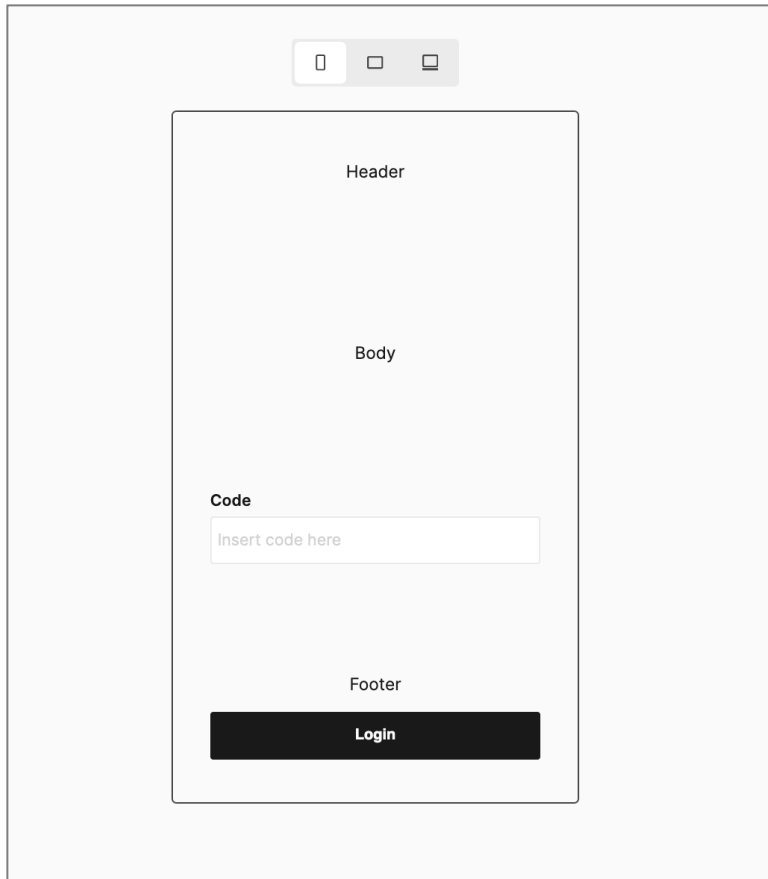
Content

- Add Content
 - Text—Add text to the splash page for users to view before logging in
 - Image—Upload an image to the splash page
 - Terms—Create terms of use
 - Login button—Add a login button
 - Code field—Add a password for users to connect into the network
- Layout
 - Header—Top of the splash page
 - Body—Center of the splash page
 - Footer—Bottom of the splash page
- Appearance
 - Padding—Increase or decrease the padding size of a section.
 - Background color—Add a background color to a section.
 - Alignment—Adjust the location of content within a section.

Preview

Multiple displaying options to preview the splash page when viewed on phones, tablets and PCs.

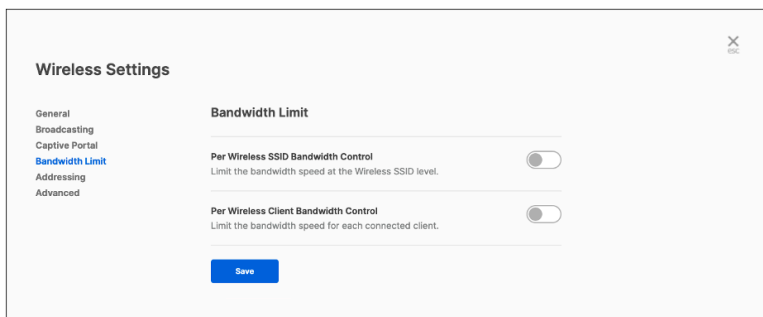




A diagram of a mobile application layout. At the top, there is a header bar with three icons: a mobile phone, a tablet, and a laptop. Below this is a large rectangular area labeled 'Header'. Underneath the header is a section labeled 'Body'. Inside the body, there is a section labeled 'Code' with a text input field containing the placeholder text 'Insert code here'. Below the input field is a section labeled 'Footer' which contains a black button with the text 'Login' in white.

Be sure to click the Save and Exit button when you are finished making changes.

Bandwidth limit



A screenshot of the 'Wireless Settings' application. The title 'Wireless Settings' is at the top left, and a close button (X) is at the top right. On the left side, there is a list of settings categories: General, Broadcasting, Captive Portal, Bandwidth Limit (highlighted in blue), Addressing, and Advanced. The main content area is titled 'Bandwidth Limit'. It contains two sections: 'Per Wireless SSID Bandwidth Control' and 'Per Wireless Client Bandwidth Control'. Each section has a toggle switch that is currently turned off. Below these sections is a blue 'Save' button.

Per wireless bandwidth limit—Turn on bandwidth limit and use the slider to set the maximum bandwidth (in Mbps) for the SSID

Per wireless client bandwidth control—Turn on bandwidth limit and use the slider to set the maximum bandwidth (in Mbps) per client within the SSID



Addressing

Wireless Settings

General
Broadcasting
Captive Portal
Bandwidth Limit
Addressing
Advanced

Addressing

Client IP Assignment

☐ NAT Mode: use auto DHCP
Clients receive IP addresses in an isolated 10.0.0.0/8 network. Clients will be able to communicate with each other based on wireless client isolation settings, and may communicate with devices on the wired LAN based on Wired LAN isolation settings.

☒ Bridge Mode: make clients part of the router LAN
Access points operate transparently (no NAT or DHCP). Clients receive DHCP leases from the LAN or use static IPs. Use this for shared printers, file sharing, and wireless cameras.

VLAN Tagging
VLAN tagging is used to direct traffic to specific VLANs. ☐

Save

NAT Mode—Selecting NAT mode enables NAT and DHCP, the option to set a custom DNS server, and the choice to isolate wireless clients from the wired LAN.

Bridge Mode—Selecting bridge mode disables NAT and DHCP. VLAN tagging is optional by setting VLAN IDs on the SSID

Advanced

Wireless Settings

General
Broadcasting
Captive Portal
Bandwidth Limit
Addressing
Advanced

Advanced

Wireless Client Isolation
Prevents wireless clients from connecting to each other. ☐

Maximum Concurrent Clients
The limit will be individually applied to both the available bands. E.g. a limit of 10 will imply 10 devices admitted on the 2.4 GHz band and 10 devices admitted on the 5 GHz one. ☐

802.11k - Radio Resource Management
Helps devices search quickly for nearby APs that are available as roaming targets by creating an optimized list of channels. When the signal strength of the current AP weakens, your device will scan for target APs from the list. ☐

802.11r - Fast Roaming
When your devices roam from one AP to another on the same network, 802.11r uses a feature called Fast Basic Service Set Transition to authenticate more quickly. Works with both pre-shared key and 802.1x authentication methods. ☐

Sticky Client Auto Disconnect
Help enhance overall roaming behavior by disconnecting clients with a high re-transmission rate, minimizing the "sticky client" effect. ☒

Band Selection
Choose which wireless band will be used to connect clients (2.4 GHz, 5 GHz or both).

☒ Dual Band (2.4 GHz and 5 GHz)
This option will enable both 2.4 GHz and 5 GHz, allowing a wider range of options to connect clients.

☐ 2.4 GHz only
2.4 GHz band is widely supported by most devices, but it's also more affected by interference and it could be easily congested in high density environments.

☐ 5 GHz only
5 GHz band has more capacity and less interference than 2.4 GHz, but legacy clients are not capable of using it.

Save

Wireless client isolation—When turned on, prevents wireless clients from connecting to each other



Maximum concurrent clients—When turned on, limits the number of clients that can be connected at the same time

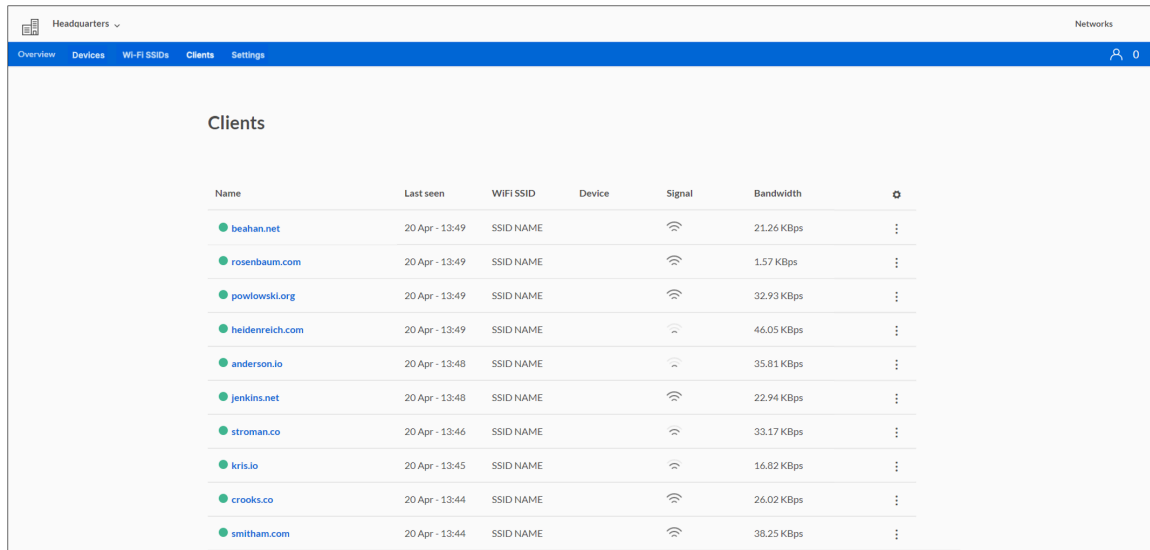
802.11k—When turned on, helps devices search faster for nearby access points as roaming options

802.11r concurrent clients—When turned on, helps devices authenticate more quickly when roaming

Sticky client auto disconnect—When turned on, automatically disconnects clients with a high retransmission rate

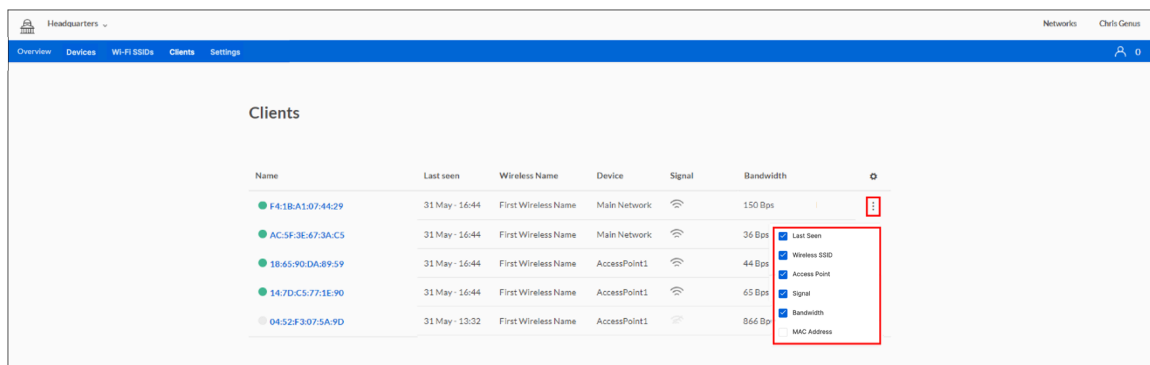
Band Selection—Select between dual band or single band operation for the SSID

Clients



Name	Last seen	WIFI SSID	Device	Signal	Bandwidth	
beahan.net	20 Apr - 13:49	SSID NAME			21.26 KBps	
rosenbaum.com	20 Apr - 13:49	SSID NAME			1.57 KBps	
powlowski.org	20 Apr - 13:49	SSID NAME			32.93 KBps	
heidenreich.com	20 Apr - 13:49	SSID NAME			46.05 KBps	
anderson.io	20 Apr - 13:48	SSID NAME			35.81 KBps	
jenkins.net	20 Apr - 13:48	SSID NAME			22.94 KBps	
stroman.co	20 Apr - 13:46	SSID NAME			33.17 KBps	
kris.io	20 Apr - 13:45	SSID NAME			16.82 KBps	
crooks.co	20 Apr - 13:44	SSID NAME			26.02 KBps	
smitham.com	20 Apr - 13:44	SSID NAME			38.25 KBps	

Click the settings icon in the far column to view information about a specific client.



Name	Last seen	Wireless Name	Device	Signal	Bandwidth	
F4:18:A1:07:44:29	31 May - 16:44	First Wireless Name	Main Network		150 Bps	
AC:5F:3E:67:3A:C5	31 May - 16:44	First Wireless Name	Main Network		36 Bps	
18:65:90:DA:89:59	31 May - 16:44	First Wireless Name	AccessPoint1		44 Bps	
14:7D:C5:77:1E:90	31 May - 16:44	First Wireless Name	AccessPoint1		65 Bps	
04:52:F3:07:5A:90	31 May - 13:32	First Wireless Name	AccessPoint1		866 Bp	

☒ Last Seen
☒ Wireless SSID
☒ Access Point
☒ Signal
☒ Bandwidth
☒ MAC Address

Details

F4:1B:A1:07:44:29

connected

Rename

Details

Connection

Details

MAC address

F4:1B:A1:07:44:29

Name

Notes

First seen

31 May - 13:22

Last seen

31 May - 16:50

MAC address—Client MAC address

Name—Custom client label

Notes—Client note or description

First seen—The first time the client connected

Last seen—Last seen client date

Connection

F4:1B:A1:07:44:29

connected

Rename

Details

Connection

Connection

Duration

2:31:39

Traffic

150 Bps

Signal

Last seen

31 May - 16:52

Wireless Name

First Wireless Name

Device

Main Network

Duration—How long the client has been connected

Bandwidth—The speed of the connection

Signal—The strength of the connection

Last seen—The last time the client was connected

IP Address—The client's IP address

Wireless SSID—The Wi-Fi SSID the client connected to

Access Point—The access point the client is connected to

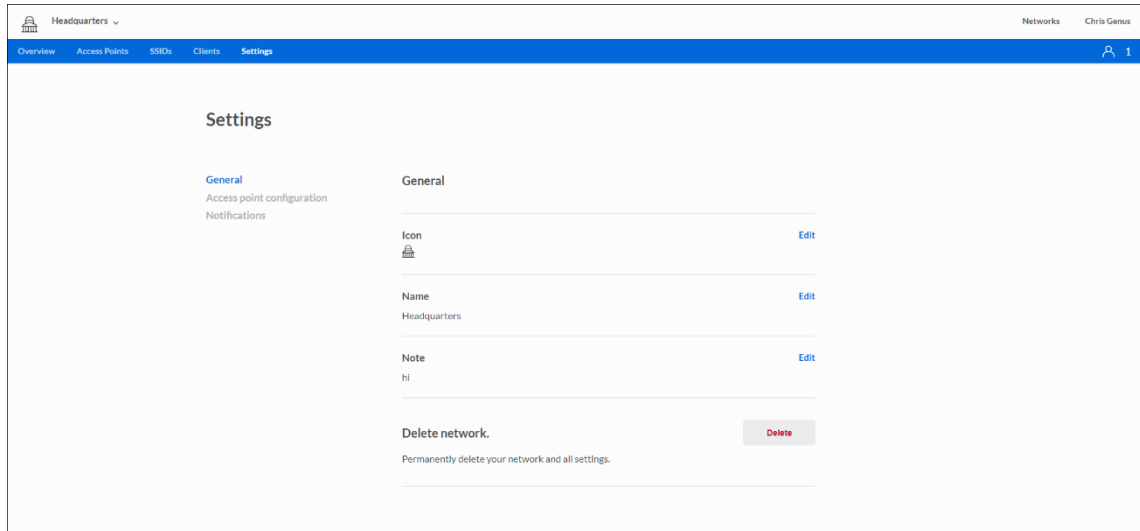


Usage—Bandwidth usage by the client

Packets—Packets downloaded and uploaded by the client

Settings

Select a network and click on the Settings tab. Choose a setting to view or edit.



General

View or edit a network's icon, name and any notes. You can also delete a network from cloud management.

Network-wide configuration

View or edit a network's time zone, local login information, local web server status, remote syslog status, scheduled reboots, auto configuration rollback status, and turn the access point's LED on or off.

Notifications

Decide whether to send email notifications to network members when an access point goes offline.



Account settings

To view or edit your account settings, click on your account name and choose Account Settings from the drop-down menu.

The screenshot shows the Linksys Networks dashboard. In the top right corner, there is a user profile icon with the letter 'L'. A red box highlights the dropdown menu that appears when this icon is clicked. The menu contains the following options: 'Linksys anthony', 'Switch Organization', 'Account Settings', 'Inventory', 'Firmware Update', 'Support', and 'Logout'. The 'Account Settings' option is the one the user should select to view or edit their account settings.

Status	Clients	Traffic
Headquarters 4 Devices	16 Online clients	3.11 MBps Current traffic
Satellite 0 Device	0 Online clients	0 Bps Current traffic
Annex 0 Device	0 Online clients	0 Bps Current traffic
Outpost 0 Device	0 Online clients	0 Bps Current traffic

Profile

The screenshot shows the 'Account Settings' page with the 'Profile' tab selected. The page contains the following fields for personal data:

- First Name:** Chris
- Last Name:** Genus
- Phone Number:** +1 (310) 751-2941
- Time Zone:** America/Los_Angeles
- Language:** English

A 'Save' button is located at the bottom of the form.

The profile screen shows your personal data:

- First Name
- Last Name
- Phone Number
- Time Zone
- Language



Security

Change your account password, and view information about users logged in to the cloud management account. Enable 2-factor authentication for an additional layer of security requiring verification through email.

The screenshot shows the 'Account Settings' page with the 'Security' tab selected. On the left sidebar, 'Security' is highlighted. The main content area has a 'Security' header. Below it, there's a 'Password' section with a text input field containing masked characters and a 'Change' link. The 'Two-factor authentication' section has a toggle switch that is currently turned off. Below this is a 'Sessions' section showing a single session for 'Firefox / Mac OS' on 'Jan 20, 2021, 9:15 AM' with a 'Current' status and a menu icon. A 'Save' button is located at the bottom of the main content area.

Organization

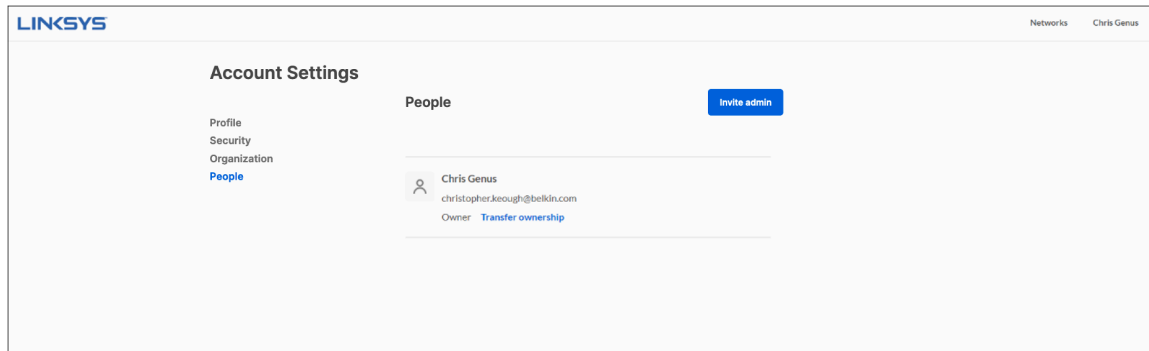
Choose the option to change your organization name or delete the organization. Note that once an organization has been deleted it cannot be recovered.

The screenshot shows the 'Account Settings' page with the 'Organization' tab selected. On the left sidebar, 'Organization' is highlighted. The main content area has an 'Organization' header. Below it, there's an 'Organization Name' section with a text input field containing 'Linksys PM Organization'. The 'Delete Organization' section has a 'Delete' link in red text. A 'Save' button is located at the bottom of the main content area.

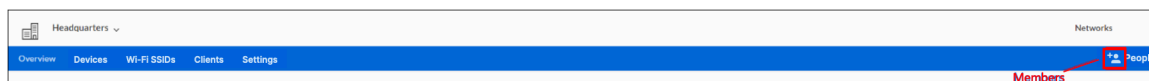
People

Lists all the members of the account. To add a new member to an account, click on Invite admin.





You can also add a new member to your network by clicking the person icon on the far right of the menu bar. Click *Invite Member* and enter an email address and assign permissions (Manager or Viewer).



To transfer ownership of your account, click *Transfer ownership* and enter the email address of the member you would like to give ownership.



Inventory

The screenshot shows the Linksys Networks dashboard. The main area displays a table of networks with columns for Status, Clients, and Traffic. The sidebar on the right contains a user profile and a menu with options like Account settings, Inventory, and Logout. The 'Inventory' option is highlighted with a red box.

Status	Clients	Traffic
Headquarters 4 Devices	16 Online clients	3.11 MBps Current traffic
Satellite 0 Device	0 Online clients	0 Bps Current traffic
Annex 0 Device	0 Online clients	0 Bps Current traffic
Outpost 0 Device	0 Online clients	0 Bps Current traffic

Inventory is the virtual deposit for the devices you're not using.

The screenshot shows the Linksys Inventory page. It features a large heading 'Inventory' and a subheading explaining that inventory is a virtual deposit for access points not currently in use. A blue button labeled 'Add new access point' is highlighted with a red box. To the right, there is a 3D wireframe illustration of a storage bin.

To add a device, click the Add new access point button.

Connect your device to the internet.

Enter the MAC address and serial number of the device you want to add. Click the Next button.

Once the device has been found, rename it and click the Add access point button.



Support

Technical Support, Regulatory, Safety and Warranty

Additional support and information about this product can be found at www.linksys.com/support.

