



Portal EV Quick Start Guide

Portal Smart WIFI router is a high-end AP (Access Point) capable of improving the entire Wi-Fi experience. Portal is easily managed through a mobile app or web browser and can be monitored in the cloud with added Support.

This document works as a quick guide to Add, Monitor, and Manage the Portal APs.



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LED Status

- ❖ On top of the Portal there is an LED which, depending on the color, indicates the following:
- Portal is not connected to Internet
- Portal is connected to Internet
- Portal is connected to Internet with FastLanes and SmartLanes operational
- (Blinking) Updating firmware, please wait
- (Blinking) Updating firmware, please wait



Add New Portal Network



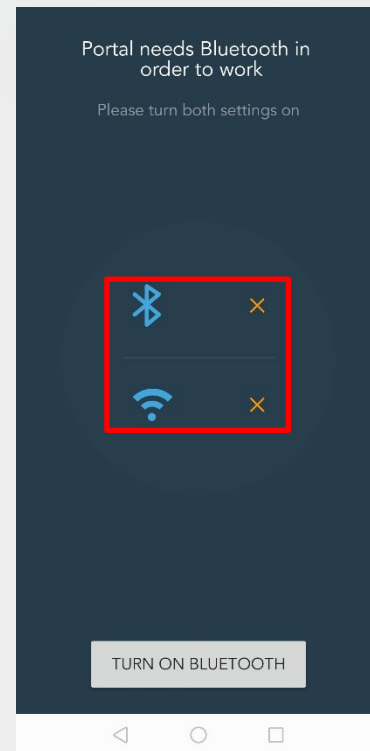
- ❖ Using a Smart device, download and install

Portal Smart WIFI Router from

- Play Store for Android
- App Store for iPhones

- ❖ Once installed, open the App on your device and select **Setup**

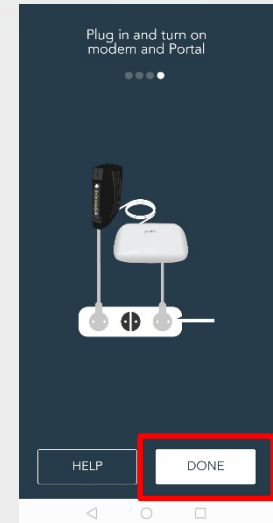
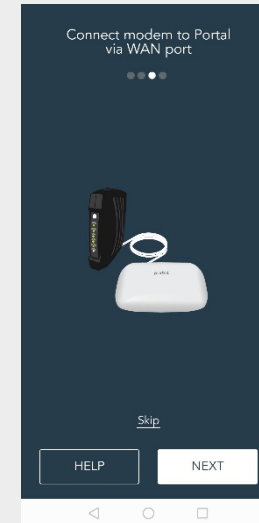
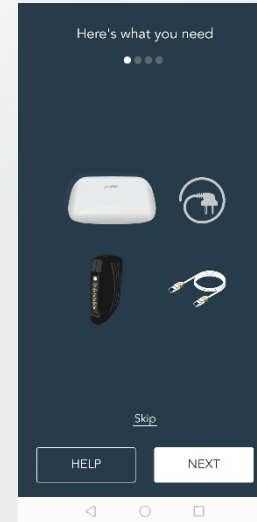
- ❖ Enable Wi-Fi and Bluetooth (the App requires them for management)



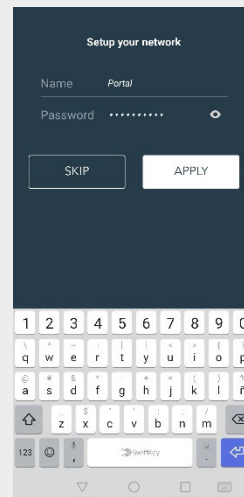
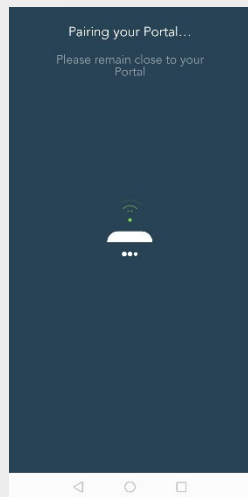
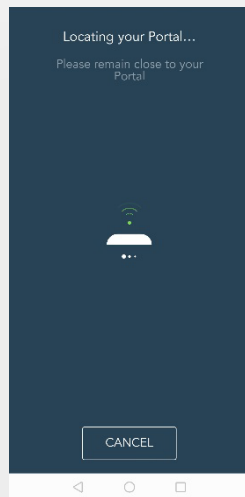
- ❖ The elements required to add the Network:
 - Portal AP
 - Modem with Internet connection
 - Power adapter (Included)
 - Network cable (Included)

- ❖ With the Portal Powered off, use the Network Cable to connect from the **WAN** port behind the Portal to an available port on your Internet Service Provider's Modem

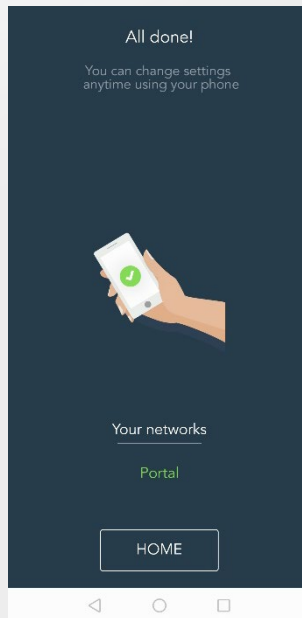
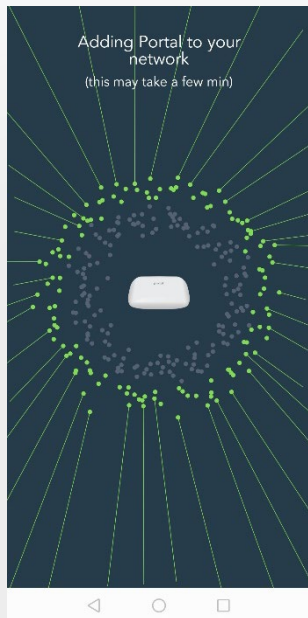
- ❖ Power on the Portal and select Done in the App.



- ❖ The App will start looking for any reachable Portal, pairing the Portal with the App is done automatically.
- ❖ The App will display the Setup Screen, where a Network Name and Password can be set. If this step is skipped the default values will be used, which are located on the label at the back of the Portal.

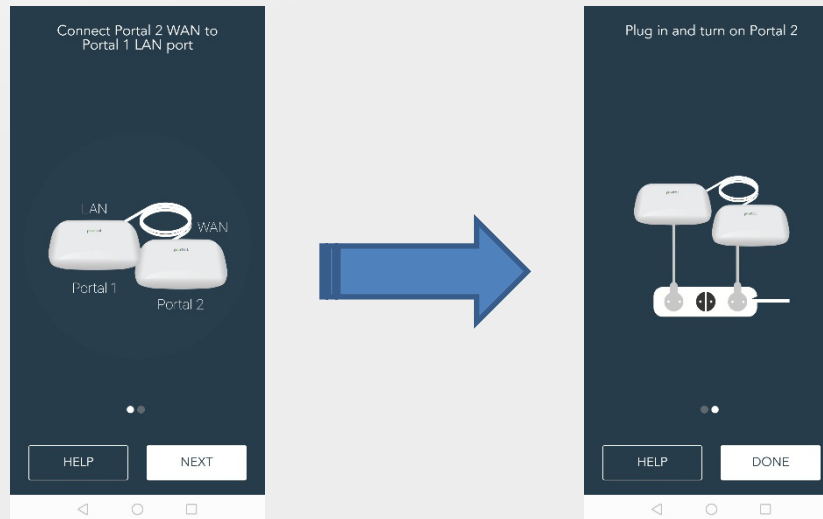


- ❖ Once the Network Name and Password are set the Portal will be added to the you network.
- ❖ Select **HOME** to finish the process. The Portal will be ready to use.

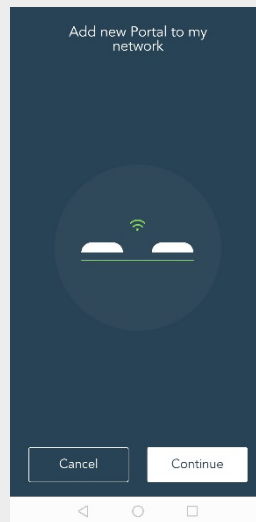


Add Second Portal on the Network

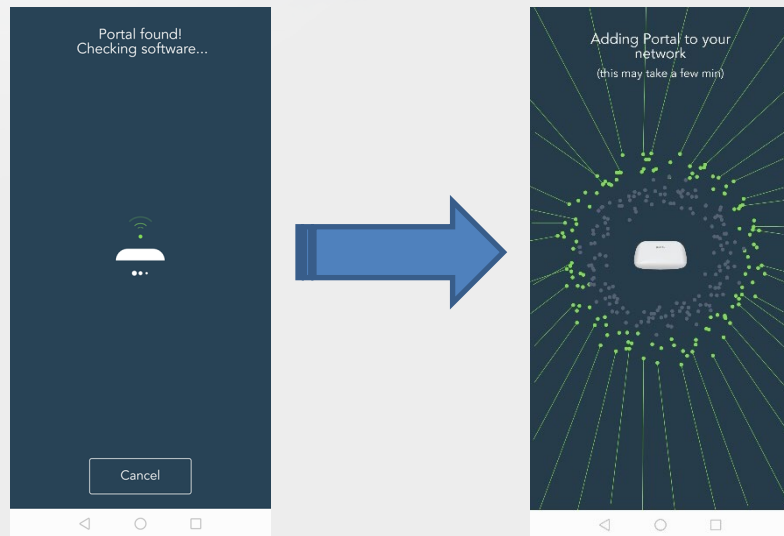
- ❖ In order to add another Portal and create the Mesh in the Network it is required to have a second Portal, Power supply, and Network Cable.
- ❖ Connect the network cable into one of the available **LAN** ports on the back of the first Portal, and the other side of the cable into the **WAN** port of the second Portal, then turn on the second Portal.



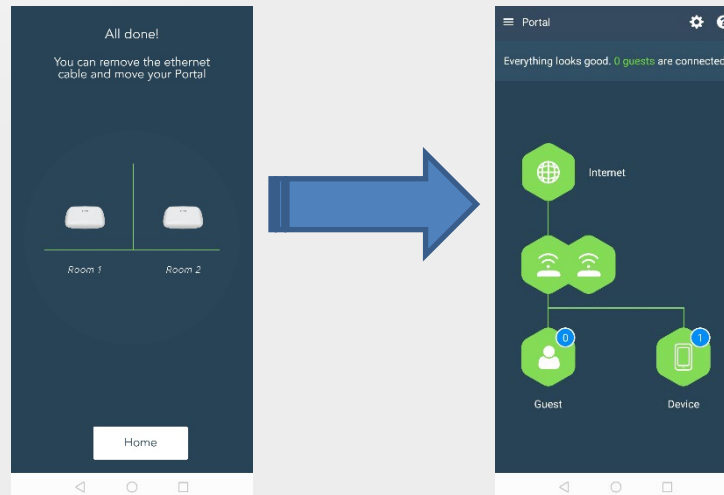
- ❖ On the Portal Smart WIFI Router App select the + icon
- ❖ On the *Add new Portal to my network* screen select **Continue**



- ❖ The second Portal will be found by the App and start the process automatically.
- ❖ Note: When the second Portal is connected to Internet it will connect to the cloud and update software if required (it may take some minutes to finish the update).



- ❖ Once the process finished select **Home** and the Network cable used to connect both portals can now be disconnected
- ❖ Second Portal can be moved to a different place freely, if it is in range from the first Portal it will reconnect to it and automatically create the mesh



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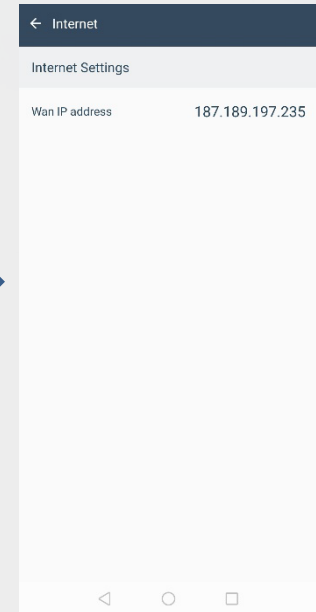
Enable Remote Management On The WAN

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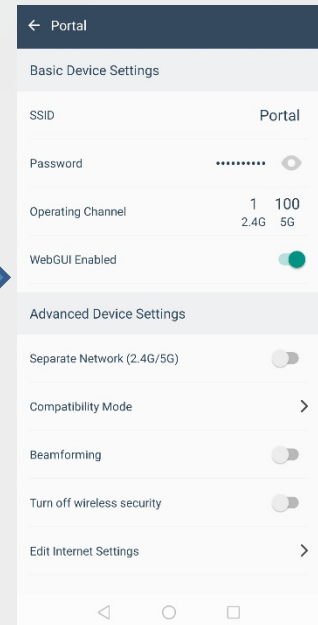
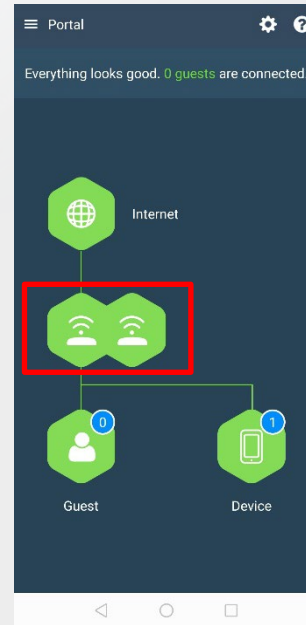
Cloud Monitoring System

Mobile App Overview

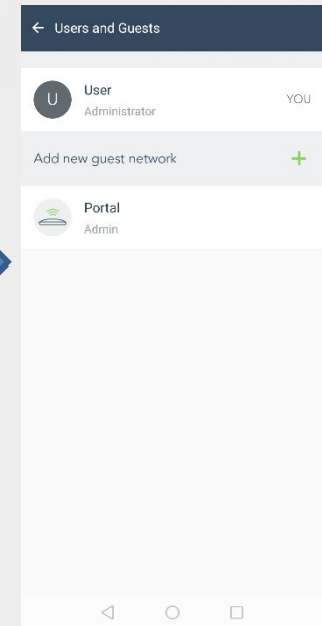
- ❖ Portal AP can be managed on the Portal Smart WIFI Router App through the main screen in the first picture
- ❖ Selecting the top icon (Internet) will display the WAN IP address that the Portal is using to connect to Internet



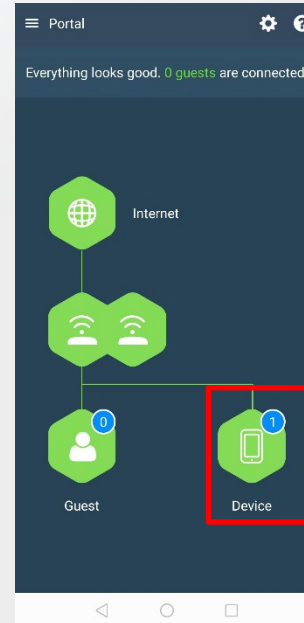
- ❖ Selecting the icon below Internet will display the Wi-Fi configuration for this network
- ❖ On this screen SSID and Password can be modified
- ❖ On **Edit Internet Settings** the AP can be set to work in Router or Bridge mode



- ❖ Selecting the **Guest** icon will display the Wi-Fi networks existing for this Portal AP
- ❖ Portal supports the creation of an additional **Guest SSID** for an independent network and separate Wi-Fi access for Guests, it can be added on this screen

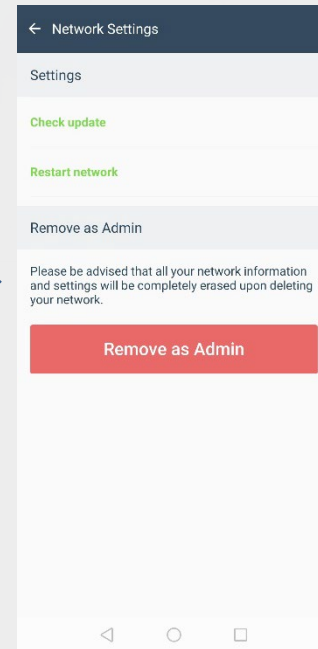


- ❖ Selecting the **Device** icon will display all the clients connected on the Portal
- ❖ The clients displayed are the ones that are online, and being detected by the AP



Removing the network

- ❖ To remove an existing Portal network select the gear icon on the top-right of the main screen
- ❖ The app will display the **Network Settings** screen, select **Remove as Admin**, and the app will remove the network
- ❖ Push the Reset button located on the back of the Portal for 10 seconds and the LED will start blinking (beginning factory reset)
- ❖ After the Portal is reset it can be used to create a different network



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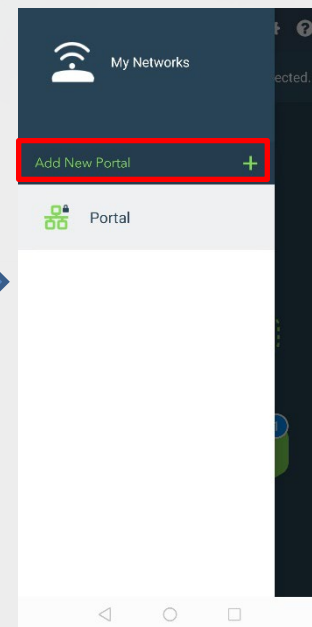
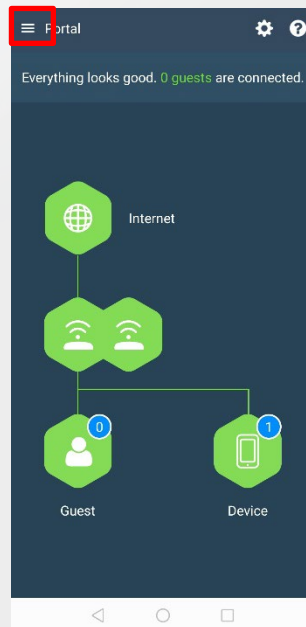
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Cloud Monitoring System

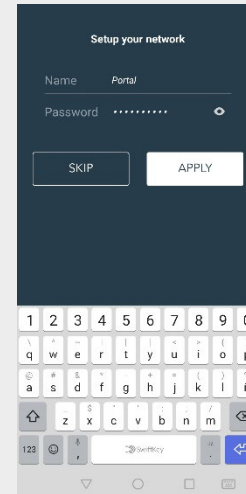
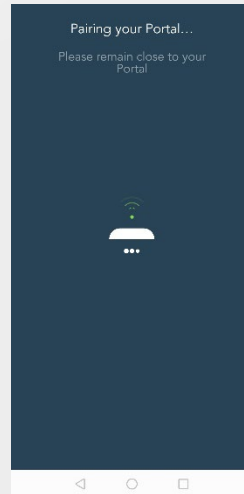
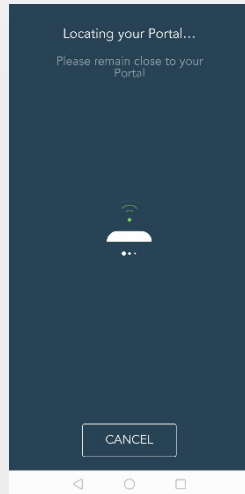
Create a Second Portal Network

It is possible to add different networks on the same mobile app, the steps are as following

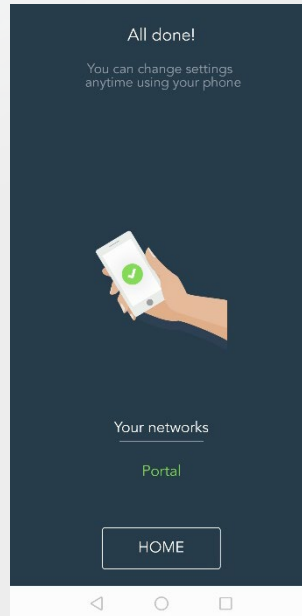
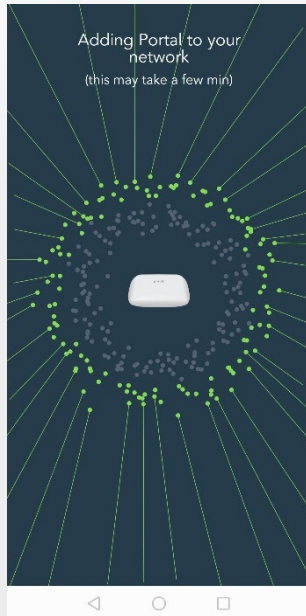
- ❖ At the mobile app, select the icon the left upper corner of the screen
- ❖ Select the option Add New Portal
- ❖ Portal should be connected to the Internet modem by using a network cable




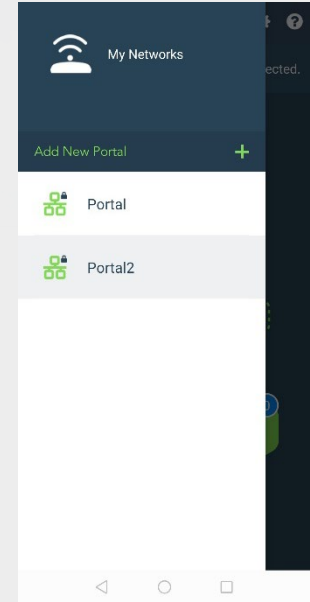
- ❖ The app will start looking for any reachable Portal, the process to pairing the Portal with the App is done automatically
- ❖ The app will display the setup screen, where a network name and password can be set, if this step is skipped the default values will be used which are located on the label at the back of the Portal



- ❖ Once the name and password are set the Portal will be added to the network
- ❖ Select **HOME** to finish the process, the Portal will be ready to use



- ❖ To change between different networks select the  icon in the left upper corner of the screen
- ❖ The app will display a list of the different networks that have been paired with the mobile app
- ❖ Select the network that will be managed



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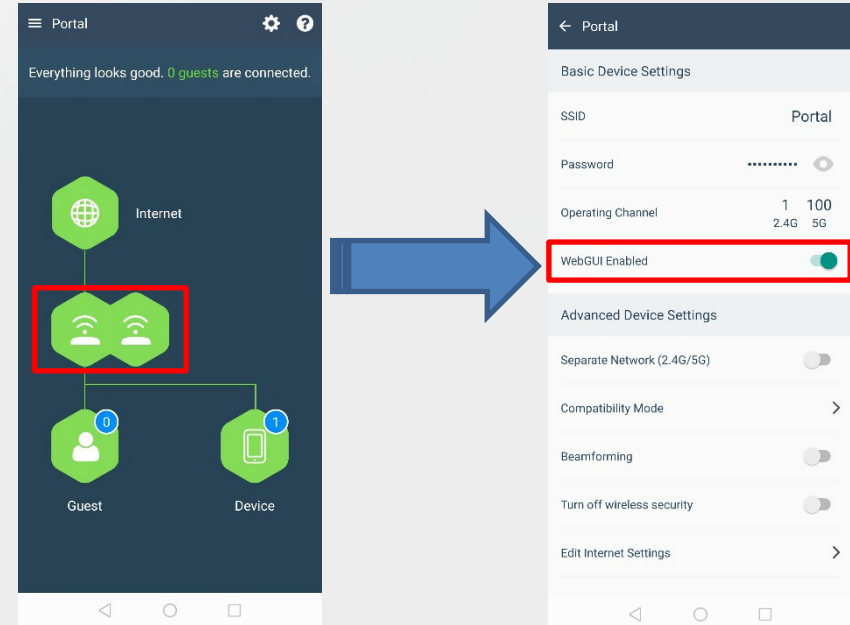
Enable Remote Management on the WAN

Portal AP can also be accessed through the Internet by enabling the connection on the WAN.

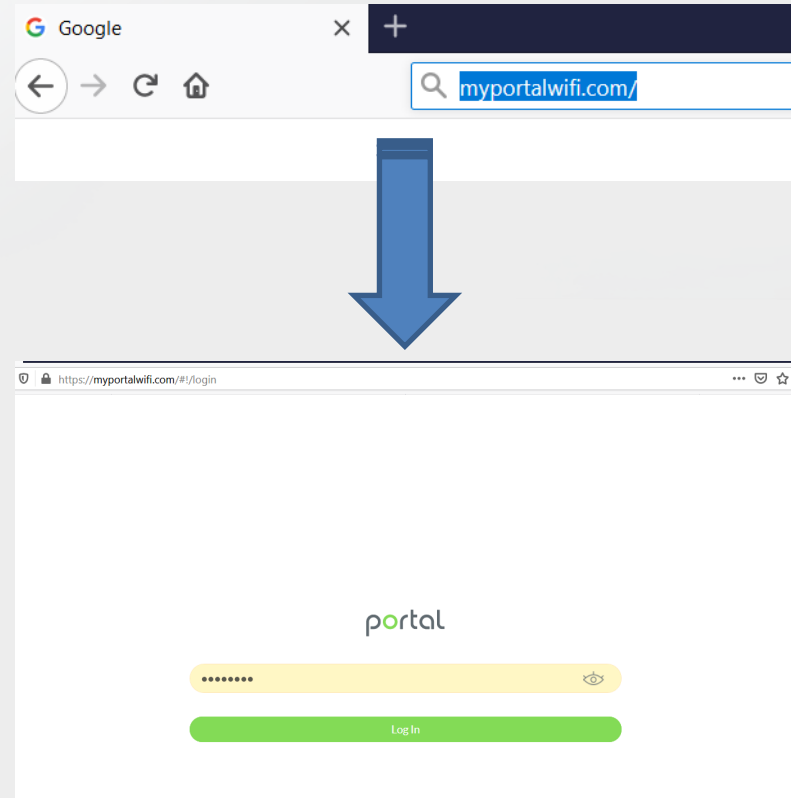
For security, remote access and access to the GUI are disabled by default, the following steps are used to enable them

- ❖ In the Portal Smart Wifi Router App, select the AP icon to display the configuration menu
- ❖ Turn on **WebGUI Enabled**

This will enable the access to the GUI by using a PC or Laptop Computer.

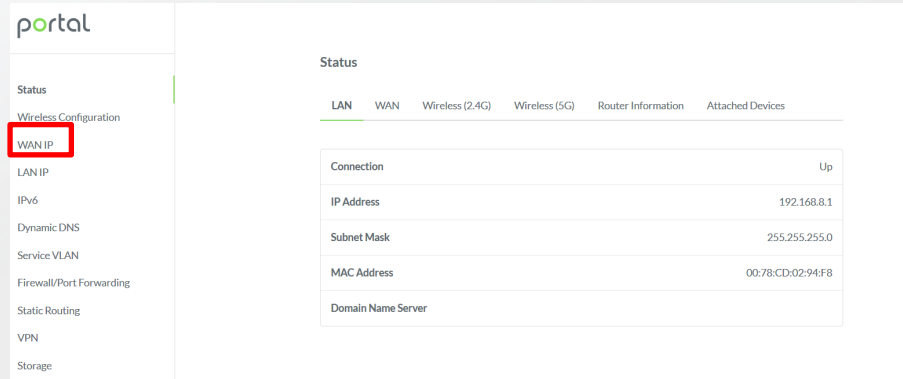


- ❖ On the PC, open an Internet browser and write the URL <https://myportalwifi.com>
- ❖ The browser will open the Portal Login page
- ❖ The initial password to login is *password*, click Log In



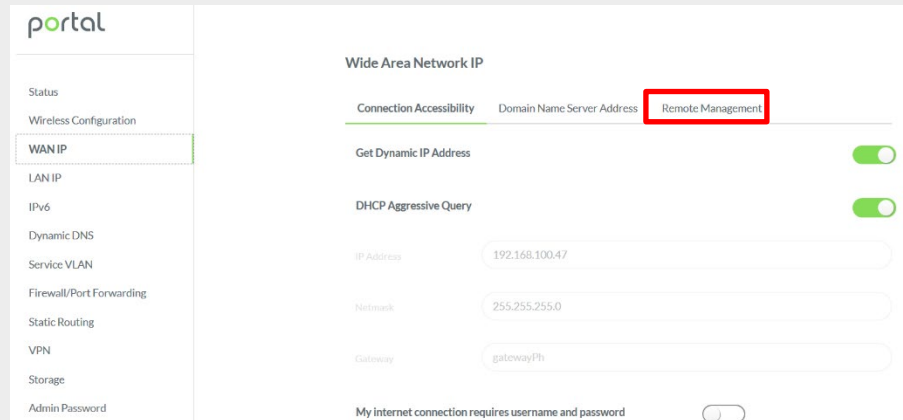
- ❖ The browser will display the status page of the GUI, select the **WAN IP** option located in the Menu on the left side navigation panel.
- ❖ The GUI will display the **Wide Area Network IP** configuration screen, select the **Remote Management** option.

Note: When Portal is working in Bridge mode the Remote Management option will be disabled. Bridge Mode can be disabled on the LAN IP option from the left navigation menu



The screenshot shows the 'portal' GUI. On the left, the 'WAN IP' option under 'Wireless Configuration' is highlighted with a red box. The main area displays the 'Status' page with tabs for LAN, WAN, Wireless (2.4G), Wireless (5G), Router Information, and Attached Devices. The 'WAN' tab is selected, showing a table with network details:

Connection	Up
IP Address	192.168.8.1
Subnet Mask	255.255.255.0
MAC Address	00:7B:CD:02:94:F8
Domain Name Server	



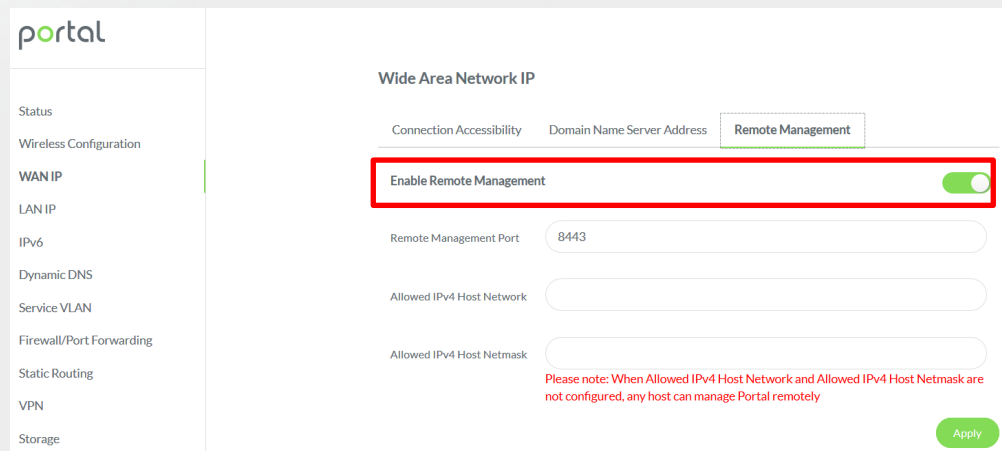
The screenshot shows the 'portal' GUI 'Wide Area Network IP' configuration page. The 'Remote Management' option is highlighted with a red box. The page includes sections for 'Connection Accessibility', 'Domain Name Server Address', and 'Remote Management'. The 'Remote Management' section has a toggle switch that is turned on. Below this, there are input fields for IP Address (192.168.100.47), Network (255.255.255.0), and Gateway (gatewayPh). At the bottom, there is a toggle switch for 'My internet connection requires username and password'.

- ❖ Turn on **Enable Remote Management** option

Once enabled, it will be possible to access the GUI by using the **WAN IP** address

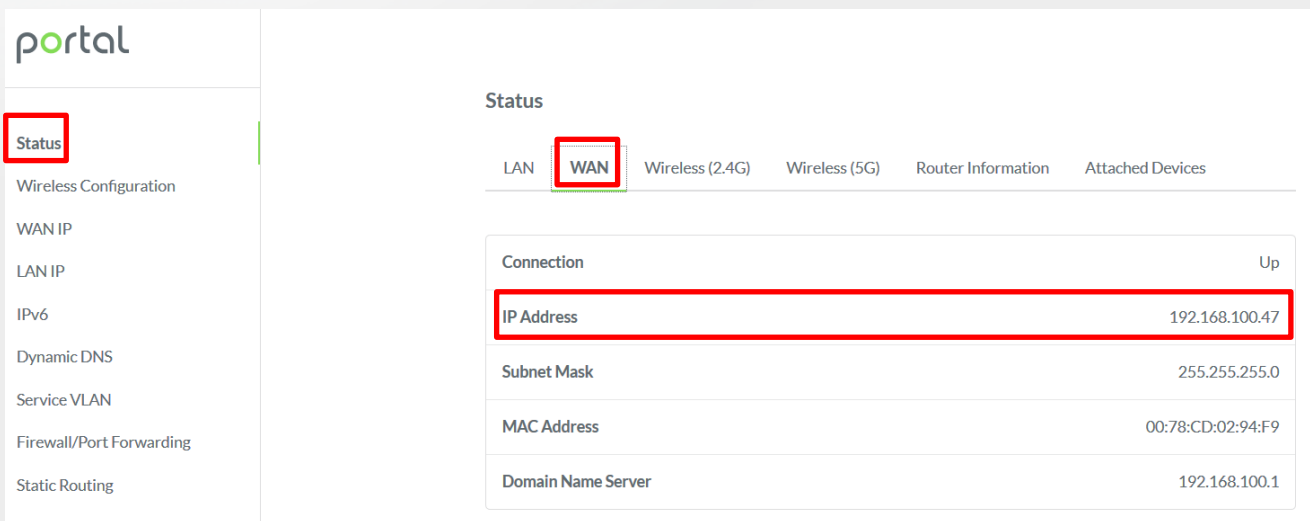
- ❖ **Remote Management Port** can be modified to change the access port

- ❖ It is possible to limit the networks or IPs that will have permission to connect remotely to Portal, this can be configured on the **Allowed IPv4 Host Network** and **Netmask**



The screenshot shows the 'portal' web interface. On the left is a sidebar menu with options: Status, Wireless Configuration, **WAN IP** (highlighted), LAN IP, IPv6, Dynamic DNS, Service VLAN, Firewall/Port Forwarding, Static Routing, VPN, and Storage. The main content area is titled 'Wide Area Network IP' and contains three tabs: 'Connection Accessibility', 'Domain Name Server Address', and 'Remote Management' (which is active). Under the 'Remote Management' tab, the 'Enable Remote Management' toggle switch is turned on and is highlighted with a red rectangle. Below this, there are input fields for 'Remote Management Port' (set to 8443), 'Allowed IPv4 Host Network', and 'Allowed IPv4 Host Netmask'. A red warning message at the bottom states: 'Please note: When Allowed IPv4 Host Network and Allowed IPv4 Host Netmask are not configured, any host can manage Portal remotely'. An 'Apply' button is located at the bottom right.

- ❖ To connect remotely to the Portal, the IP address on the WAN is required, this IP can be found by selecting **Status** on the left menu in the **WAN IP** section. The **WAN IP** address needs to be reachable from the Network used to connect remotely



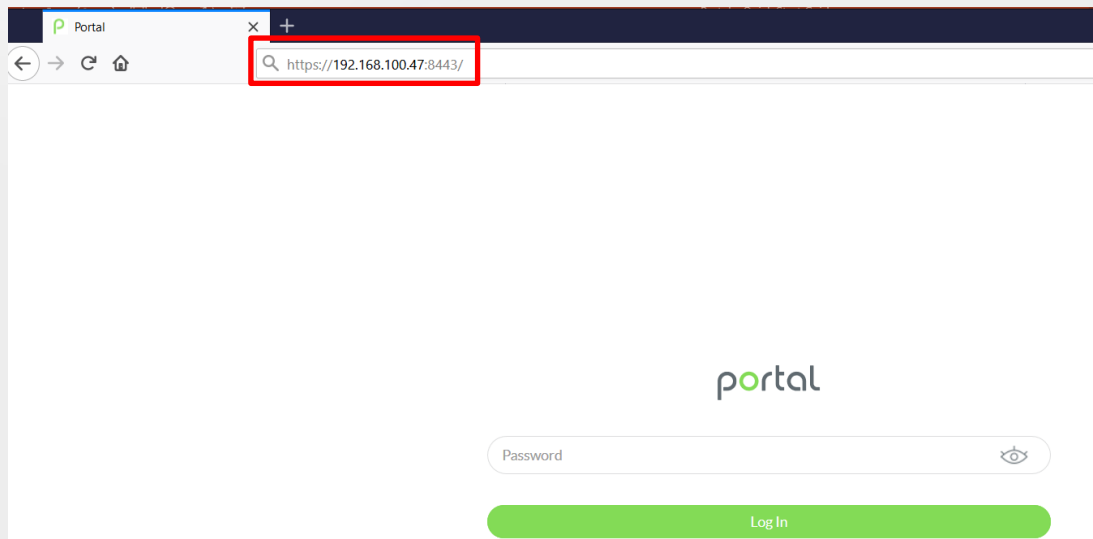
The screenshot shows the 'portal' web interface. On the left sidebar, the 'Status' menu item is highlighted with a red box. The main content area is titled 'Status' and has several tabs: 'LAN', 'WAN' (highlighted with a red box), 'Wireless (2.4G)', 'Wireless (5G)', 'Router Information', and 'Attached Devices'. Below the tabs, there is a table with network information:

Connection		Up
IP Address	192.168.100.47	
Subnet Mask	255.255.255.0	
MAC Address	00:78:CD:02:94:F9	
Domain Name Server	192.168.100.1	

Note: WAN IP address can also be verified on the cloud monitor system mentioned later in this document

- ❖ On a PC connected to the remote Network, open a browser and type the Portal WAN IP address and the port configured earlier in Remote Management.
- ❖ The format of the URL is as follows:

`https://[WAN_IP_Address]:[Port]`



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Cloud Monitoring system



As an additional feature, Portal APs can be monitored through the **Portal Cloud Monitoring System**, where it is possible to locate and check the status of the Portal and status of the Wi-Fi network where it is located.

Access to it requires an account provided by Technity.

The screenshot displays the 'PORTAL I-1F71 DEVICE STATUS' page. On the left is a navigation menu with options: Device Status (selected), Configuration, Mesh Configuration, Associated Clients, Channels and Spectrum, AP Statistics, Neighbor Networks, Map Location, Kernel Message, System Log, Client Steering Log, Advance Info, and Data Analysis. The main content area is titled 'Portal Status' and features a large image of a white Portal I-1F71 device. To the right of the image is a 'DEVICE STATUS' table with the following data:

Parameter	Value
Status	ONLINE
Product ID	1F71
Redman	00:78:c0:00:1f:70
Bluetooth MAC Address	00:78:c0:00:1f:71
AP MAC Address	00:78:c0:00:1f:70
Internet IP	96.82.89.1
AP Version	1.2.215
Boost Version	1.2.215
Country	US
2.4G Preference List	1,6,11
5G Preference List	100,132,148,36,52,116
Location	37.29323805089797, 121.89203415077355
Mode	meshportal
Compatibility Mode	Off
Uptime (mins)	4 days, 20 hours, 14 minutes

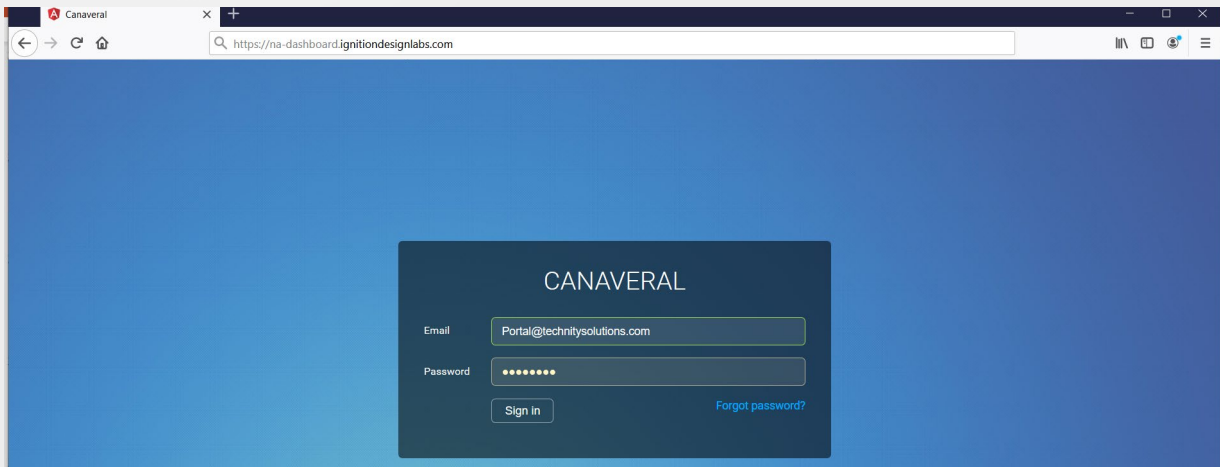
Below the device status is an 'ATTACHED DEVICES' table:

MAC Address	IP Address	Device Name
Ignition:00:11:10	192.168.23.4	PORTAL_Ian
Ignition:00:1d:58	192.168.23.3	IGNITION_RW_Ian
IntelCor:20:3d:1b	192.168.23.29	UP-Lenovo-PC_Ian

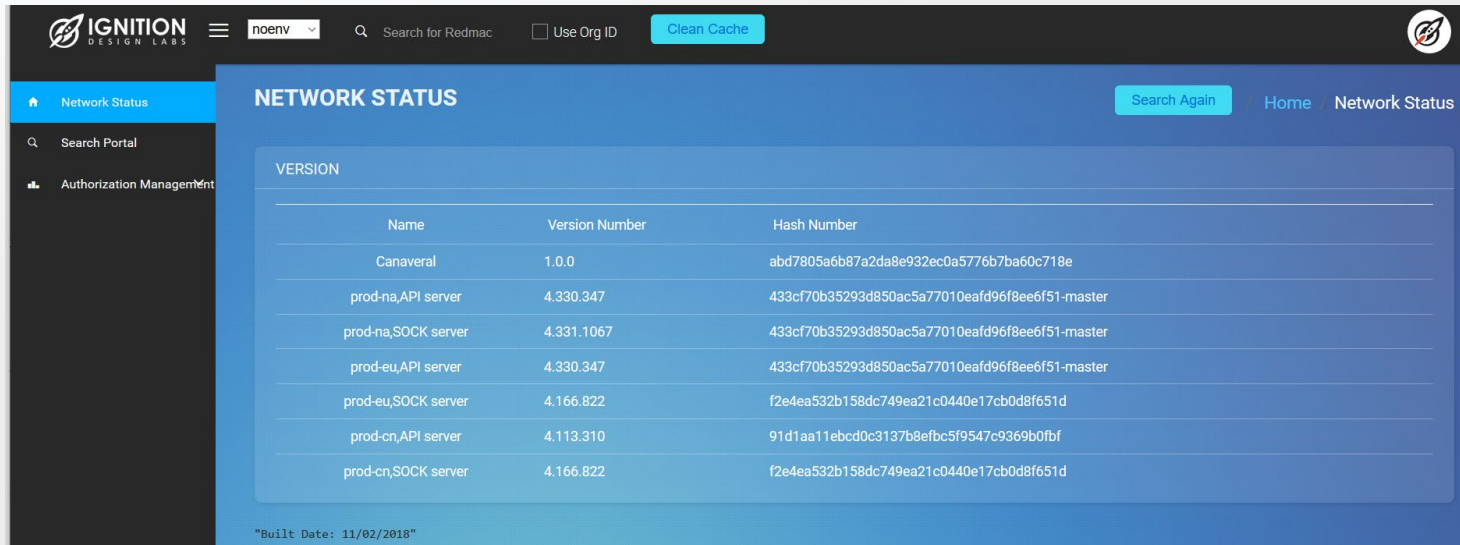
In order to access the Portal Cloud using an internet browser on a PC input the URL:

<https://na-dashboard.ignitiondesignlabs.com>

The browser will display the login page to the monitoring system.
Login with the credentials provided by Technity.



Once logged in, the browser will display the following web page:



The screenshot shows the Ignition Design Labs web interface. The top navigation bar includes the Ignition logo, a menu icon, a dropdown menu set to 'noenv', a search bar with the text 'Search for Redmac', a checkbox for 'Use Org ID', and a 'Clean Cache' button. The left sidebar contains links for 'Network Status' (active), 'Search Portal', and 'Authorization Management'. The main content area is titled 'NETWORK STATUS' and features a 'Search Again' button and a breadcrumb trail 'Home > Network Status'. Below the title is a table with the heading 'VERSION'.

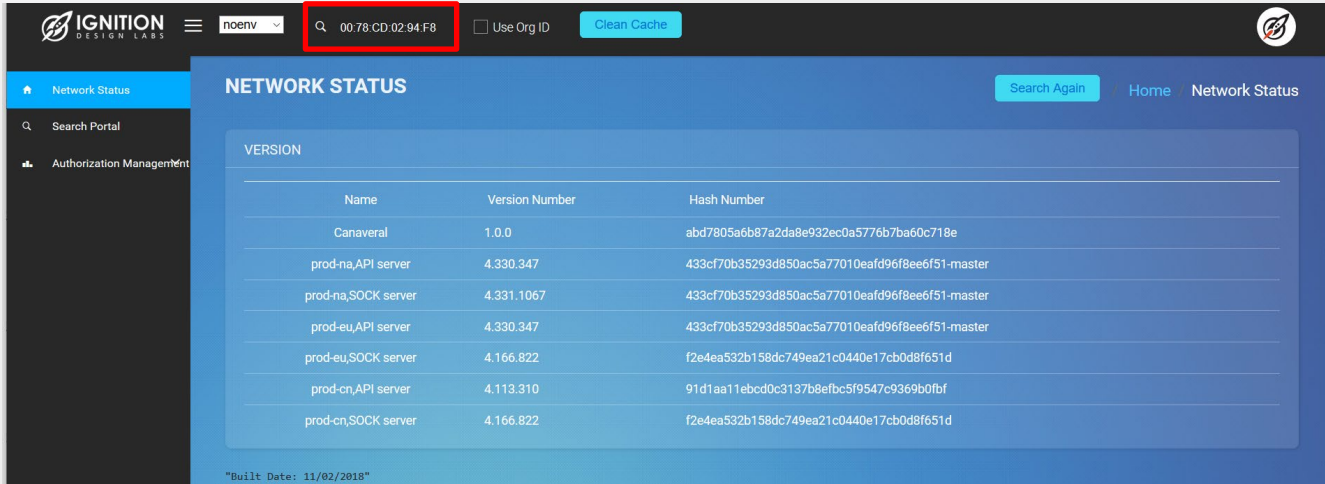
Name	Version Number	Hash Number
Canaveral	1.0.0	abd7805a6b87a2da8e932ec0a5776b7ba60c718e
prod-na,API server	4.330.347	433cf70b35293d850ac5a77010eafd96f8ee6f51-master
prod-na,SOCK server	4.331.1067	433cf70b35293d850ac5a77010eafd96f8ee6f51-master
prod-eu,API server	4.330.347	433cf70b35293d850ac5a77010eafd96f8ee6f51-master
prod-eu,SOCK server	4.166.822	f2e4ea532b158dc749ea21c0440e17cb0d8f651d
prod-cn,API server	4.113.310	91d1aa11ebcd0c3137b8efbc5f9547c9369b0fbf
prod-cn,SOCK server	4.166.822	f2e4ea532b158dc749ea21c0440e17cb0d8f651d

"Built Date: 11/02/2018"

In order to look for an AP, the MAC address of the Portal is required.

In the search box “*Search for Redmac*”, enter the MAC address of the Portal and press Enter.

The format of the MAC address should be XX:XX:XX:XX:XX:XX

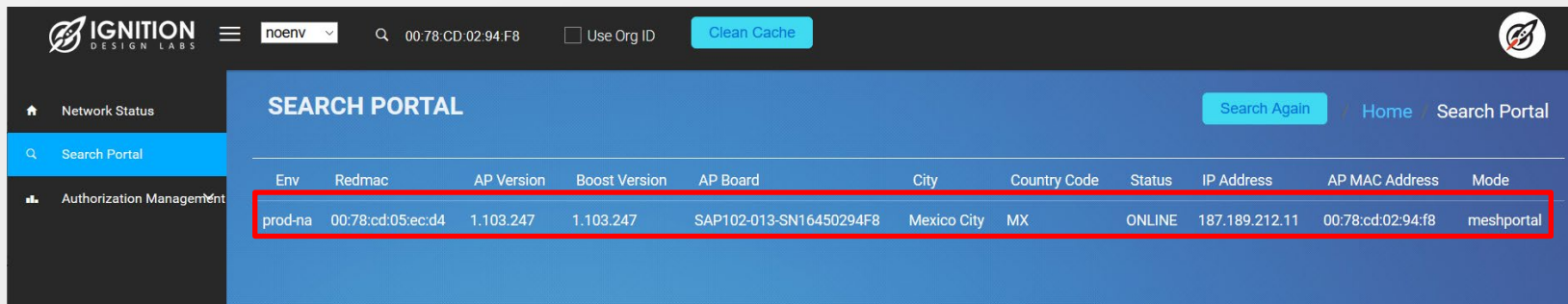


The screenshot shows the Ignition Design Labs web interface. The top navigation bar includes the Ignition Design Labs logo, a menu icon, a dropdown menu with 'noenv', a search bar containing '00:78:CD:02:94:F8' (highlighted with a red box), a 'Use Org ID' checkbox, and a 'Clean Cache' button. The left sidebar has a 'Network Status' link. The main content area is titled 'NETWORK STATUS' and features a 'Search Again' button, a 'Home' link, and a 'Network Status' link. Below this is a 'VERSION' section containing a table with columns for Name, Version Number, and Hash Number. The table lists various components and their versions. At the bottom, it says 'Built Date: 11/02/2018'.

Name	Version Number	Hash Number
Canaveral	1.0.0	abd7805a6b87a2da8e932ec0a5776b7ba60c718e
prod-na,API server	4.330.347	433cf70b35293d850ac5a77010eafd96f8ee6f51-master
prod-na,SOCK server	4.331.1067	433cf70b35293d850ac5a77010eafd96f8ee6f51-master
prod-eu,API server	4.330.347	433cf70b35293d850ac5a77010eafd96f8ee6f51-master
prod-eu,SOCK server	4.166.822	f2e4ea532b158dc749ea21c0440e17cb0d8f651d
prod-cn,API server	4.113.310	91d1aa11ebcd0c3137b8efbc5f9547c9369b0fbf
prod-cn,SOCK server	4.166.822	f2e4ea532b158dc749ea21c0440e17cb0d8f651d

The web page will display the following AP information:

- Software version
- Location of the AP
- Status of the AP
- Public IP that the AP uses to connect to Internet

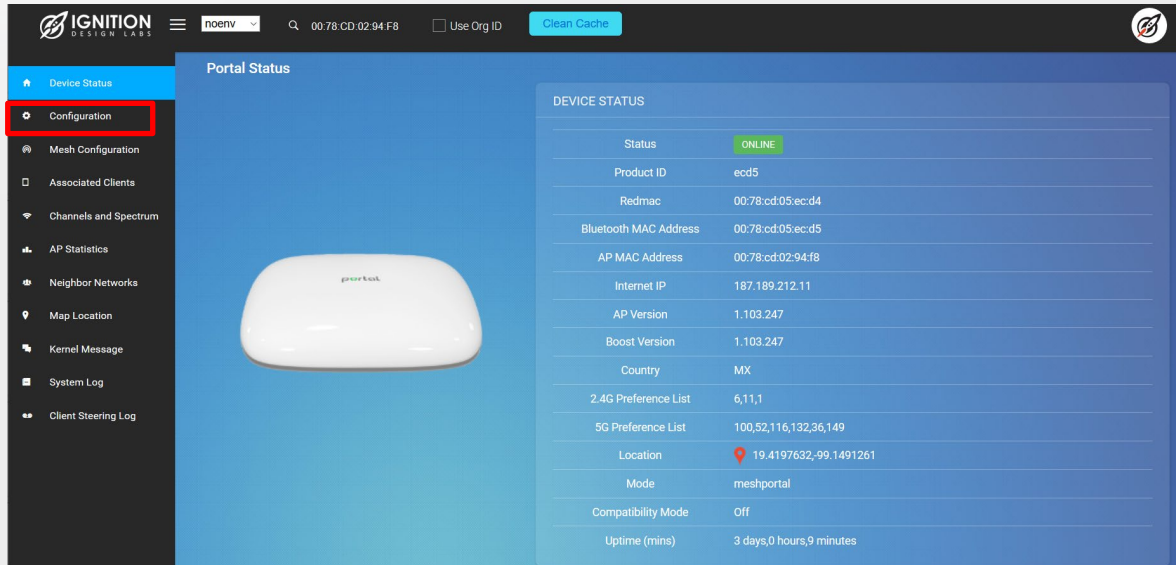


The screenshot shows the Ignition Design Labs Search Portal. The interface includes a top navigation bar with the Ignition logo, a search bar containing the MAC address '00:78:CD:02:94:F8', and a 'Clean Cache' button. A left sidebar contains links for 'Network Status', 'Search Portal' (which is highlighted), and 'Authorization Management'. The main content area is titled 'SEARCH PORTAL' and features a 'Search Again' button and breadcrumb links for 'Home' and 'Search Portal'. Below this is a table with 11 columns: Env, Redmac, AP Version, Boost Version, AP Board, City, Country Code, Status, IP Address, AP MAC Address, and Mode. A single data row is displayed and highlighted with a red border.

Env	Redmac	AP Version	Boost Version	AP Board	City	Country Code	Status	IP Address	AP MAC Address	Mode
prod-na	00:78:cd:05:ec:d4	1.103.247	1.103.247	SAP102-013-SN16450294F8	Mexico City	MX	ONLINE	187.189.212.11	00:78:cd:02:94:f8	meshportal

Click on the AP information to access the complete monitor menu of the corresponding AP

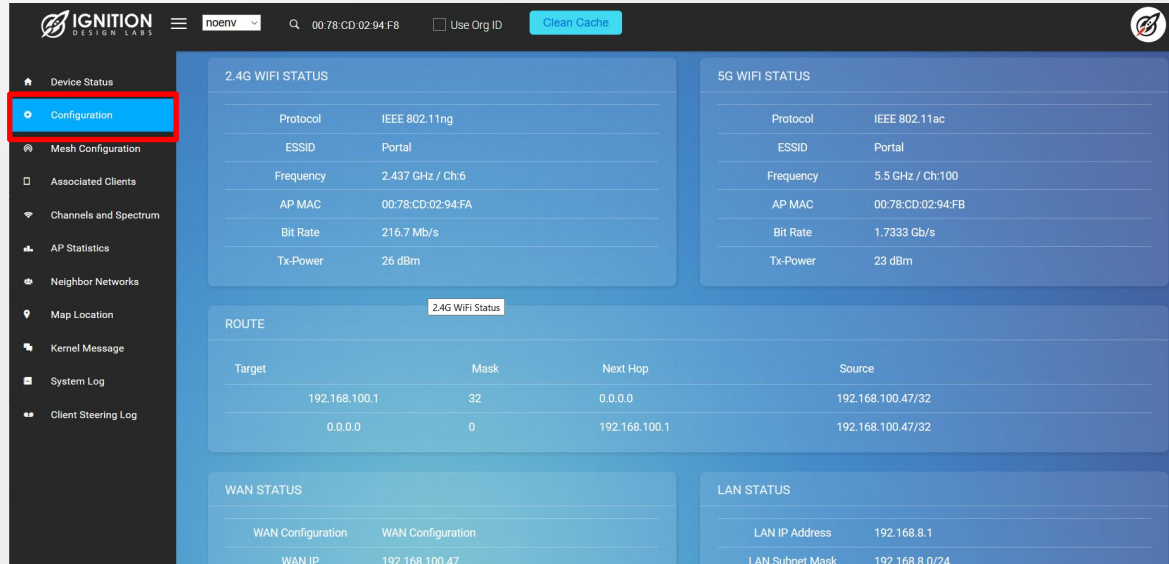
The webpage will display the **Portal Status** and the menu on the left side will display additional options, in the **Device Status** section the MAC addresses, Internet IP, software version, coordinates of the physical location of the AP, and channel preferences.



The screenshot displays the Ignition Design Labs web interface. The left sidebar menu is visible, with the 'Configuration' option highlighted by a red rectangular box. The main content area is titled 'Portal Status' and features a 3D rendering of a white, oval-shaped mesh portal device. To the right of the device, a table titled 'DEVICE STATUS' provides detailed information about the device's current state and configuration.

DEVICE STATUS	
Status	ONLINE
Product ID	ecd5
Redmac	00:78:cd:05:ec:d4
Bluetooth MAC Address	00:78:cd:05:ec:d5
AP MAC Address	00:78:cd:02:94:f8
Internet IP	187.189.212.11
AP Version	1.103.247
Boost Version	1.103.247
Country	MX
2.4G Preference List	6,11,1
5G Preference List	100,52,116,132,36,149
Location	19.4197632,-99.1491261
Mode	meshportal
Compatibility Mode	Off
Uptime (mins)	3 days,0 hours,9 minutes

Configuration will display 2.4G and 5G Wi-Fi status, Route information, WAN and LAN status.



The screenshot displays the Ignition Design Labs web interface. The left sidebar contains a menu with the following items: Device Status, Configuration (highlighted with a red box), Mesh Configuration, Associated Clients, Channels and Spectrum, AP Statistics, Neighbor Networks, Map Location, Kernel Message, System Log, and Client Steering Log. The main content area is divided into several sections:

- 2.4G WIFI STATUS**: A table showing the following details:

Protocol	IEEE 802.11ng
ESSID	Portal
Frequency	2.437 GHz / Ch:6
AP MAC	00:78:CD:02:94:FA
Bit Rate	216.7 Mb/s
Tx-Power	26 dBm
- 5G WIFI STATUS**: A table showing the following details:

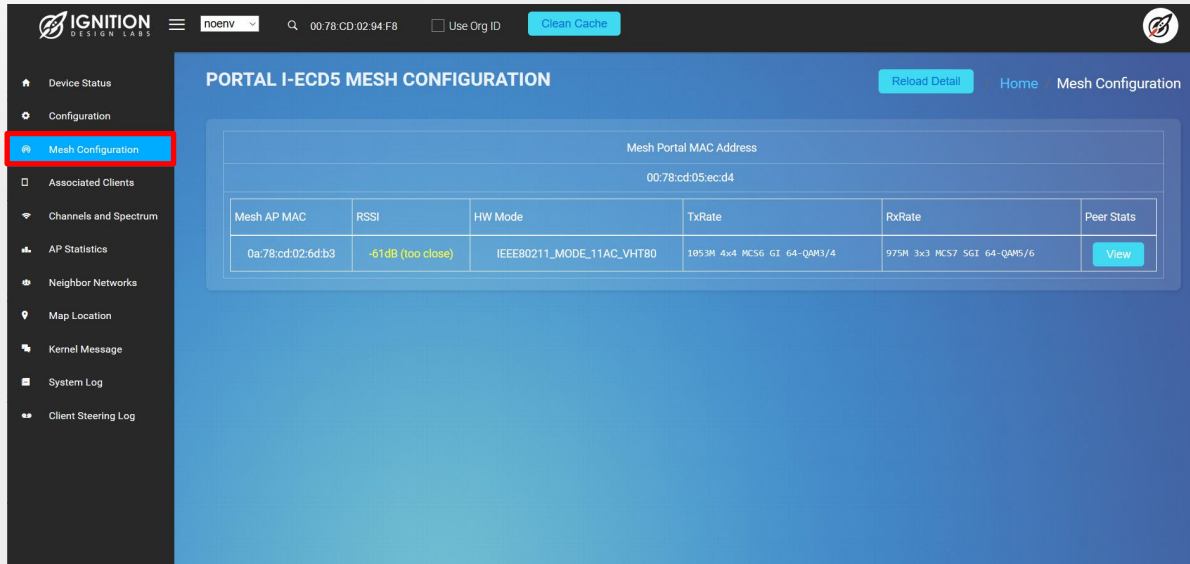
Protocol	IEEE 802.11ac
ESSID	Portal
Frequency	5.5 GHz / Ch:100
AP MAC	00:78:CD:02:94:FB
Bit Rate	1.7333 Gb/s
Tx-Power	23 dBm
- ROUTE**: A table showing the following details:

Target	Mask	Next Hop	Source
192.168.100.1	32	0.0.0.0	192.168.100.47/32
0.0.0.0	0	192.168.100.1	192.168.100.47/32
- WAN STATUS**: A table showing the following details:

WAN Configuration	WAN Configuration
WAN IP	192.168.100.47
- LAN STATUS**: A table showing the following details:

LAN IP Address	192.168.8.1
LAN Subnet Mask	192.168.8.0/24

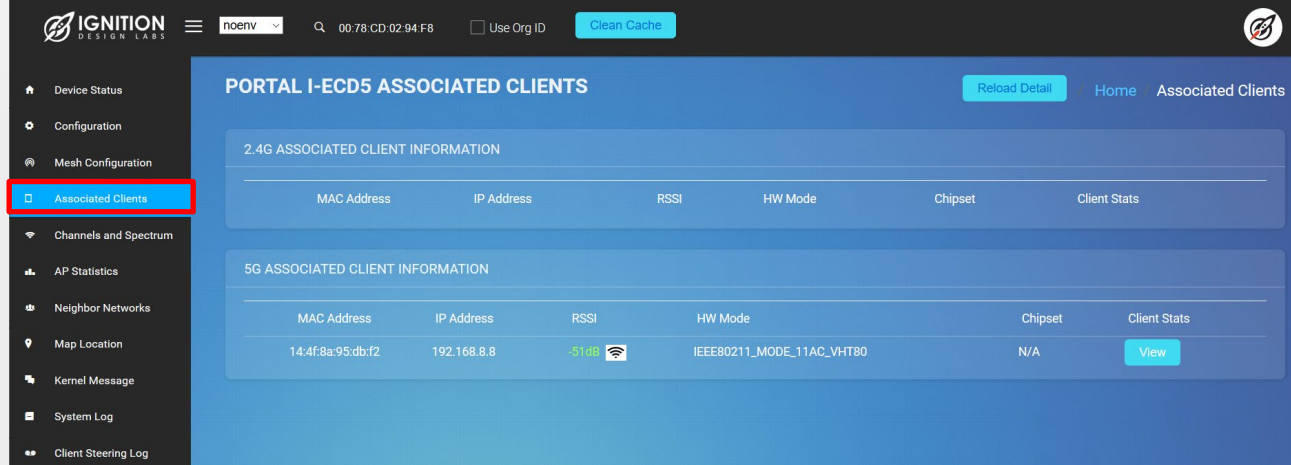
Mesh Configuration displays the mesh information of the Portal network, the system will display the signal between the two Portals in the mesh network, and if the position of the APs is optimal. Tx and Rx rate between APs is also displayed



The screenshot shows the Ignition Design Labs web interface. The left sidebar contains a menu with the following items: Device Status, Configuration, **Mesh Configuration** (highlighted with a red box), Associated Clients, Channels and Spectrum, AP Statistics, Neighbor Networks, Map Location, Kernel Message, System Log, and Client Steering Log. The main content area is titled "PORTAL I-ECD5 MESH CONFIGURATION" and includes a "Reload Detail" button and links to "Home" and "Mesh Configuration". Below the title, the "Mesh Portal MAC Address" is displayed as "00:78:cd:05:ec:d4". A table shows the mesh configuration details:

Mesh AP MAC	RSSI	HW Mode	TxRate	RxRate	Peer Stats
0a:78:cd:02:6d:b3	-61dB (too close)	IEEE80211_MODE_11AC_VHT80	1853M 4x4 MCS6 GI 64-QAM3/4	975M 3x3 MCS7 SGI 64-QAM5/6	View

Associated Clients displays clients connected to the Portal, RSSI, MAC addresses and IP addresses provided by DHCP.



IGNITION DESIGN LABS

noenv 00:78:CD:02:94:F8 Use Org ID Clean Cache

Device Status
Configuration
Mesh Configuration
Associated Clients
Channels and Spectrum
AP Statistics
Neighbor Networks
Map Location
Kernel Message
System Log
Client Steering Log

PORTAL I-ECD5 ASSOCIATED CLIENTS

Reload Detail Home Associated Clients

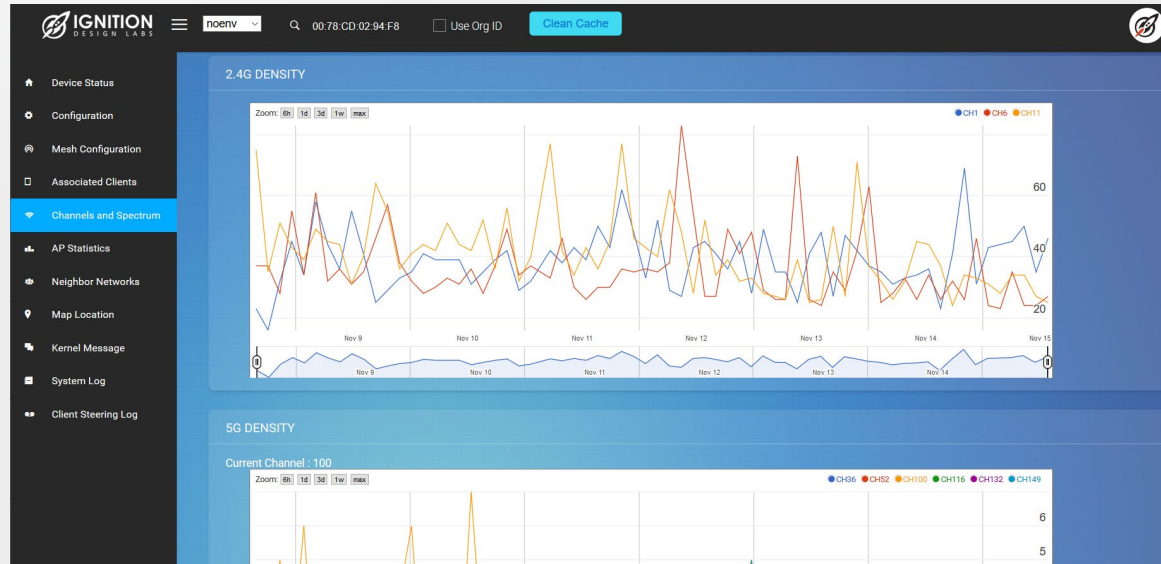
2.4G ASSOCIATED CLIENT INFORMATION

MAC Address	IP Address	RSSI	HW Mode	Chipset	Client Stats
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5G ASSOCIATED CLIENT INFORMATION

MAC Address	IP Address	RSSI	HW Mode	Chipset	Client Stats
14:4f:8a:95:db:f2	192.168.8.8	-51dB	IEEE80211_MODE_11AC_VHT80	N/A	View

Channels and Spectrum shows the density of the 2,4G and 5G channels for the AP over the time, as well as the channel availability over the time for restricted DFS channels



Nearby Networks shows the information of the radiating APs detected by Portal, BSSID, SSID, operation channel, RSSI and frequency used by the APs can be checked in order to see the status of the Wi-Fi network existing on the Portal location.



noenv

00:78:CD:02:94:F8

Use Org ID

Clean Cache

Device Status

Configuration

Mesh Configuration

Associated Clients

Channels and Spectrum

AP Statistics

Nearby Networks

Map Location

Kernel Message

System Log

Client Steering Log

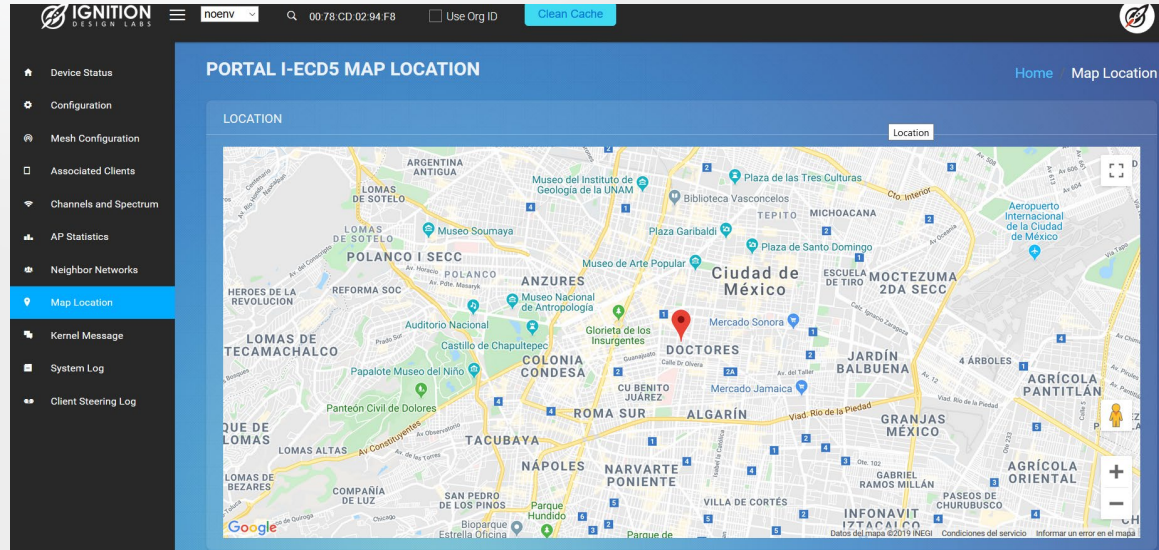
PORTAL I-ECD5 NEIGHBOR NETWORKS

Home Neighbor Networks

2.4G NEIGHBORS AP INFORMATION

BSSID	SSID	Channel	RSSI	Time	Information
fc:ae:34:62:4e:68	IZZ1-05F8	1	-59dB	Nov 15, 2019	11ac 20MHz 40MHz 80MHz
04:8b:42:25:d2:37	APFieldTEST	1	-64dB	Nov 15, 2019	11n 20MHz
70:4f:b8:90:9d:bd	IZZ1-CEE5	1	-75dB	Nov 15, 2019	11ac 20MHz 40MHz 80MHz
9c:97:26:d1:8a:45	INFINITUMD18A45	1	-75dB	Nov 15, 2019	11n 20MHz
50:95:51:de:5f:3b	IZZ1-CDF1	1	-77dB	Nov 15, 2019	11ac 20MHz 40MHz 80MHz
cc:35:40:6d:11:49	HOME-1149	1	-77dB	Nov 15, 2019	11n 20MHz
30:91:8f:e7:14:53	INFINITUME71453	1	-78dB	Nov 15, 2019	11n 20MHz
ce:35:40:6d:11:4a		1	-79dB	Nov 15, 2019	11n 20MHz
f8:8b:37:e9:f5:83	IZZ1-6E7E	1	-80dB	Nov 15, 2019	11ac 20MHz 40MHz 80MHz
f4:9e:ef:b4:70:9d	INFINITUM8FF6_2.4	1	-81dB	Nov 15, 2019	11n 20MHz
0c:70:4a:59:66:bd	ATT_Internet_En_Casa_5429	1	-82dB	Nov 15, 2019	11n 20MHz 40MHz
b0:be:76:13:64:8d	ARRIS-8FF2_EXT	1	-82dB	Nov 15, 2019	11n 20MHz
a0:9d:86:ad:ad:8c	INFINITUME4FD	1	-85dB	Nov 15, 2019	11n 20MHz

Map Location provides an accurate location of the AP.



Thank You!

