

W I F I R A N G E R

CONNECTING MOBILE LIFESTYLES™

USER MANUAL



Written For
7.0 Phantom Firmware

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CONTROL PANEL

The interface used to setup and control a WiFiRanger router. Each WiFiRanger has its own Control Panel that is embedded within the router and accessed in a web browser of a *connected* device. Computers, smartphones, tablets, and other devices with web browsers can be used to setup and control a WiFiRanger.

By default, advanced features are hidden on the Control Panel. Turn Hide Advanced Features to Off on the Setup tab to view the full Control Panel. Most users only need the simple mode.

- ✦ **Web Browser Based**
- ✦ **Accessible by All Devices**
- ✦ **Simple and Clean Design**



Quick Start

1) Power WiFiRanger

USE INCLUDED POWER SUPPLY OR FOLLOW INSTALLATION GUIDE

2) Wait a couple minutes

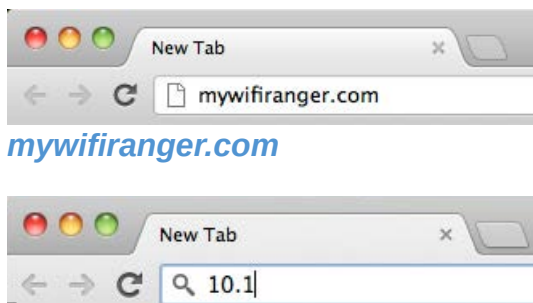
WIFIRANGERS AUTOMATICALLY SEARCH FOR INTERNET AFTER POWERING UP

3) Wirelessly connect a device to **NETWORK** using **PASSWORD**

YOU CAN ALSO CONNECT VIA HARDWIRE FOR WIFIRANGERS WITH LAN PORTS

4) Open device's web browser and go to Control Panel

OPEN INTERNET EXPLORER, CHROME, FIREFOX, SAFARI, ETC.



CONTROL PANEL ADDRESS

5) See if WiFiRanger is online or connect

JOIN A WIFI NETWORK OR CONNECT TO ETHERNET WAN OR CELLULAR IF NOT YET ONLINE

DETERMINE **XX** AND **YY** FROM
NETWORK BROADCAST OF YOUR WFR 

NETWORK Pvt.WiFiRanger.XXYY
PASSWORD changemenowXXYY
CONTROL PANEL ADDRESS
10.1XX.YY.1:8080

FOR EXAMPLE

Pvt.WiFiRanger.4067 
changemenow4067
10.140.67.1:8080



BASICS

Bookmark

Upon accessing the Control Panel, it is highly recommended to create a bookmark using the Make Bookmark link located at the bottom left of the Control Panel. This makes accessing the WiFiRanger easy in the future while alleviating the need to remember the direct IP address.

Scan & Connect to WiFi Signals

1) Get on Main tab of Control Panel

EVERYTHING NECESSARY IS LOCATED ON THE LEFTHAND SIDE

2) Select desired wireless radio

ONLY WFRBOOST & WFRCONTROL USERS HAVE MULTIPLE CHOICES AS SHOWN (**Go²** / **MOBILE** IN THIS CASE)

3) Click Scan

REFRESHES THE LIST OF WiFi NETWORKS WHICH THE SELECTED RADIO CAN CURRENTLY SEE



4) Click Connect on desired WiFi Network once Scan is complete

YOU WILL BE PROMPTED FOR THE PASSWORD IF THE WiFi NETWORK WAS SECURED USING WEP OR WPA

14 WiFi Networks		Signal	Type	Speed	Tag
CONNECT	BlueMeshNetworks	n	WPA		☐
CONNECT	Pub.WiFiRanger.7226	n	OPEN		☐

The Scan button performs a one-time refresh of the wireless signals in range. When moving locations, for instance, the list of WiFi Networks may look like you are still at the old location, but clicking the Scan button will list what is currently available. Keep in mind that you must first select the desired model to the left of the Scan button prior to scanning or connecting.

The Connect button simply attempts to connect to the selected WiFi Network. If the signal is secured, you may be prompted to enter the password of the WiFi Network. The WiFi status will update with the steps the WiFiRanger is taking during the connection attempt.



Perform Range

REQUIRES HIDE ADVANCED FEATURES OFF ON SETUP TAB

1) Get on Main tab of Control Panel

THE RANGE OPTIONS ARE HIDDEN INITIALLY

2) Click arrow-button to right of WiFi header

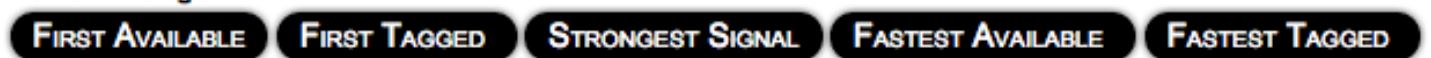
THIS EXPANDS TO SHOW THE RANGE OPTIONS BELOW



3) Click desired Perform Range choice

EACH OPTION IS BASED ON INTELLIGENT PRIORITIZATION TO PROVIDE CONVENIENT CONNECTIVITY

Perform Range



First Available

Tries to establish a connection with the first available WiFi Network that provides an internet connection regardless of its speed, security, or signal quality

First Tagged

Tries to establish a connection with the first available WiFi Network that is tagged as Prefer or Last Try, sorted by signal quality from best to poorest

Strongest Signal

Tries to establish a connection with an available WiFi Network that provides the strongest wireless signal quality

Fastest Tagged

Tries to establish a connection with the fastest available WiFi Network that is tagged as Prefer or Last Try, sorted by internet speed from best to poorest

Fastest Available

Tries to establish a connection with the WiFi Network that has the fastest internet speed available, regardless of any Prefer tokens

NOTE THAT RANGE OPTIONS WILL ATTEMPT ALL WiFi NETWORKS IN RANGE, BUT NOT ALL SIGNALS ARE NECESSARILY AVAILABLE. SUCCESS IS BASED ON HAVING AVAILABLE NETWORKS IN RANGE FOR WHICH YOU HAVE ALREADY STORED THE PASSWORD OR THAT ARE OPEN OR FILTERED.



WiFi Networks

On the Main tab, the list of available WiFi Networks provides useful information and sorting of wireless signals. The number of networks is displayed, as are the signal details. All networks are sorted top to bottom in order of signal strength (strongest to weakest) from the time of the Scan.

The letter to the left of the signal strength bars denotes the type of network whether 802.11**b**, **g**, or **n** (oldest and slowest technology to newest and fastest from left to right). The signal bars are color coded to help emphasize their strength (red is weakest and green is strongest).

Speedtest results are also displayed once the network has successfully been connected to and Speedtested. Creating a network Tag is also possible for each WiFi Network by clicking the Tag checkbox. A prompt window will appear so that you can select the type of Tag that you would like to create for this WiFi Network.

14 WiFi Networks		Signal	Type	Speed	Tag
CONNECT	BlueMeshNetworks	n	WPA		☐
CONNECT	Pub.WiFiRanger.7226	n	OPEN		☐
CONNECT	Pvt.WiFiRanger_Go6879	n	WPA		☐
CONNECT	Pvt.WiFiRanger.1036	n	WPA		☐
CONNECT	Public.1036	n	OPEN		☐
CONNECT	OpenWRT.BadBandwidth	n	WPA		☐
CONNECT	Pvt.Tactical	n	WPA		☐
CONNECT	Pvt.WiFiRanger_X.5747	n	WPA		☐
CONNECT	Pubnet5747	n	OPEN		☐
CONNECT	CSS	n	WPA		☐
CONNECT	BN Guest Network	n	WPA		☐
CONNECT	Boyle Network	n	WPA		☐
CONNECT	Pvt.WiFiRanger_Sky.1925	n	WPA		☐
CONNECT	FBI-NSA-CIA Van	n	WPA		☐

Type (encryption)

OPEN

No password required for connecting and common for free public WiFi Hotspots

FILTERED

No password required yet a *passcode* or terms acceptance on a web page is required

WEP

Password is required for connecting and this is an older and weaker form of security

WPA

Password is required for connecting and this is the latest and strongest form of security



Private Broadcast

On the WiFi tab, customize the WiFiRanger's private wireless signal.

The screenshot shows the 'Private Wireless Network' settings. It includes five options: 'Broadcast' (radio buttons for On/Off, with 'On' selected), 'Hidden Network' (radio buttons for On/Off, with 'Off' selected), 'Name (SSID)' (text field containing 'Pvt.WiFiRanger_Go2.67'), 'Password (WPA Key)' (text field containing 'changemenow6780'), and 'Encryption' (dropdown menu showing 'WPA2 AES').

Broadcast*

In general, it is not recommended to turn the Broadcast to Off. In cases of paired WFRControl systems, it may be preferable to turn the Broadcast of the Slave to Off, minimizing wireless noise.

Hidden Network*

Hiding the signal is not recommended. This setting is for limited purposes. Prior to hiding the signal, take the same precaution listed above for when turning the WiFi Broadcast Off.

Name (SSID)

Personalize your signal by changing the Name. It is recommended to change the Name at the same time of making a Password change, as your computers and devices may get confused and have mix-matched passwords stored for the WiFiRanger.

Password (WPA Key)

When setting up the WiFiRanger for the first time, it is highly recommended to change the Password from the default. Once the new Password is Saved, your device's connection will be knocked off, as the WiFiRanger is resetting its broadcast to use the new password. Once disconnected, reconnect your computer or device to the WiFiRanger and enter the new Password. It is recommended to personalize the Name along with the Password.

Encryption*

Modify the type of security if some older devices do not support the default WPA2 AES encryption which is the latest and most secure type.

*REQUIRES HIDE ADVANCED FEATURES OFF ON SETUP TAB



Updating

It is highly recommended to keep the WiFiRanger updated and on the current firmware version. This ensures best performance and highest security possible.

1) Connect WiFiRanger to stable Internet

RELIABLE INTERNET AND POWER IS CRUCIAL FOR MINIMIZING POTENTIAL UPGRADE FAILURE

2) Click Check for Updates on Control Panel

THIS MAY HAVE ALREADY OCCURRED UPON GETTING THE WIFIRANGER ONLINE

3) Click Update Firmware link if available

THE CHECK FOR UPDATES BUTTON WILL ONLY CHANGE TO THE FIRMWARE LINK IF AN UPDATE IS AVAILABLE

4) Follow instructions shown on screen

GENERALLY WAIT FOR THE WIFIRANGER TO COMPLETE THE UPDATE ON ITS OWN AND LEAVE IT POWERED UP

Cautions & Risks

Leaving the WiFiRanger alone for several minutes will allow the update to complete. If the WiFiRanger loses either power or internet during the update process, the router may become inaccessible and unresponsive. In the unfortunate and infrequent event of an upgrade failure, contact WiFiRanger support to receive the appropriate troubleshooting and solution.

Upgrading Multiple WiFiRangers

For owners of multiple WiFiRanger routers, we have simplified the update process so that it is all done automatically if WFRControl is properly setup. Just get on the Control Panel of your Go/Go2 (master) and follow the update procedure as outlined above.



CONNECTIONS

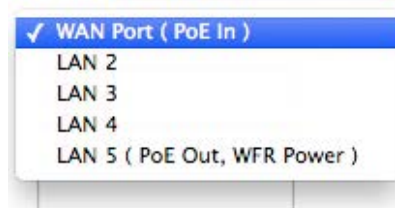
To access the more advanced configuration details of each Internet Connector, ensure that it is Active and then click the Settings gear icon on the Setup tab.



Ethernet WAN

Use Ethernet WAN for internet via a hardwired connection from a Cable or DSL modem. By default Ethernet WAN is Active on the Setup tab. This connection type is very simple, as it only requires an ethernet cable be plugged into the designated Ethernet WAN port of the WiFiRanger.

On the Setup tab, by clicking the gear Settings icon of Ethernet WAN, the Ethernet Port selection is exposed. Here the port can actually be changed to the desired one. It is recommended to leave it on the default WAN port, but the option to modify the port designation is available.



A second Ethernet WAN port can be assigned in order to have two Ethernet WAN internet sources. This allows for improved internet stability and redundancy. Simply check Ethernet WAN 2 as Active, then expand its Settings to select which port to assign for the secondary Ethernet WAN.



Toggling POE's 2nd Port

For WiFiRanger Mobile, Marine, Sky, or Elite products that are using a POE power supply, it is possible to toggle the secondary ethernet port (labeled **LAN**) of the adapter to act as either a WAN or LAN port. Having Ethernet WAN Active allows you to hardwire the WiFiRanger to an internet source as outlined above. Making Ethernet WAN inactive causes the WiFiRanger to use the secondary port of the POE as a LAN connection for hardwiring one computer, device, or switch.

Secondary Port as WAN

Check Ethernet WAN as Active on the Setup tab then click Save Changes

Order	Internet Connector	Description	Multi-WAN ?	Active	Settings
1	Ethernet WAN	WAN PORT FOR HARDWIRED CONNECTION TO MODEM OR LAN NETWORK	☐	☒	

Secondary Port as LAN

Uncheck Ethernet WAN making it inactive on the Setup tab then click Save Changes

Ethernet WAN	WAN PORT FOR HARDWIRED CONNECTION TO MODEM OR LAN NETWORK	☐	
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Internal WiFi

The primary purpose of WiFiRangers has been to connect to the internet through other wireless signals. This is a very unique feature, and is one that was pioneered by the makers of WiFiRanger.

WiFi For WAN is a term used for this functionality, which denotes the WiFiRanger's ability to use other WiFi Networks in a similar way to a hardwired WAN connection.

To use Internal WiFi, simply Scan & Connect or setup Auto Connect as desired. Internal WiFi is capable of connecting to any standard wireless signal that provides internet, including Public Hotspots, Home Networks, Hotel Networks, MiFi Signals, Smartphone Signals, etc.

Cellular

Indoor WiFiRanger routers that are equipped with a USB port which supports plug-n-play use of particular Aircards, Smartphones, and MiFi devices. Ensure that the device is activated and has service before attempting to use with the WiFiRanger. For a list of supported devices, go to wifiranger.com

In general, no settings need to be changed on the WiFiRanger in order for a supported Aircard or MiFi device to tether. If unable to connect to a support device after verifying that all of its settings are correct, then contact WiFiRanger support for assistance. Additional settings are available to troubleshoot Cellular by turning Hide Advanced Features Off on the Setup tab. Now on the Setup tab, click the gear Settings icon to reveal additional settings. By default, Automatic is selected for Carrier which is the recommended option. Any supported device should work with Automatic selected.

FOR TETHERING THE NOVATEL 4620L/LE MiFi DEVICE, FOLLOW THE SEPARATE GUIDE AVAILABLE AT WIFIRANGER.COM

WHEN PLUGGING USB AIRCARDS IN, IT IS RECOMMENDED TO USE A USB EXTENSION CABLE BETWEEN THE WIFIRANGER AND AIRCARD. THIS ENSURES PROPER SEATING OF THE USB CONNECTION, AND ALLOWS THE AIRCARD TO BE PLACED IN AN OPTIMAL LOCATION FOR CELLULAR RECEPTION.



WFRBoost

NO LONGER SUPPORTED OR RECOMMENDED

The WFRBoost systems were discontinued in July of 2012. These were the predecessors of the current WiFiRanger Mobile. It is critical to determine which product is in use as the WFRBoost feature will not work for paired systems which require WFRControl setup instead and vice versa.

To distinguish between a WFRBoost and the similar looking original Mobile (non-Titanium version), simply look at the hardware.



Activating WFRBoost

1) Check WFRBoost as Active on Setup tab

WFRBOOST MUST BE POWERED UP AND PLUGGED INTO WIFIRANGER

2) Expand settings by clicking gear icon

GENERALLY THE DEFAULT SETTINGS WILL WORK TO CONFIGURE

3) Select WFRBoost Model and verify other settings

RESET THE WFRBOOST TO FACTORY DEFAULTS IF THE PROVIDED SETTINGS FAIL (GUIDE AT WIFIRANGER.COM)

4) Click Save Changes

IF SUCCESSFUL, WFRBOOST WILL BE READY TO USE AND LISTED ON THE MAIN TAB AS AN AVAILABLE MODEL

Model	Ubiquiti Bullet
Test	Test WFRBoost Connection
Ethernet Port	LAN 5 (PoE Out, WFR Power)
IP Address	192.168.1.20
Username	ubnt
Password	ubnt



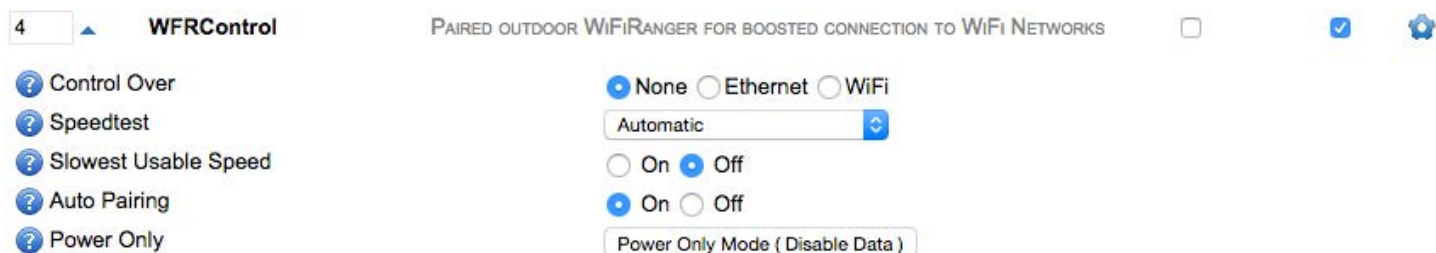
WFRControl

This feature allows a master WiFiRanger to manage and control a secondary WiFiRanger. This is used in packs that generally include both indoor and outdoor routers. It is preferable to Scan and Join using the outdoor router which is generally the slave. This can be done conveniently from the master's Control Panel once WFRControl is properly setup.

WFRControl also unites the private network so that devices connected to either WiFiRanger can communicate on the same Local Area Network. This ensures that the network is one, even though two routers are in play. Generally, the master router is used for Control Panel functions while WFRControl is in use.

Initiating WFRControl

- 1) [Check WFRControl as Active on Setup tab](#)
- 2) [Expand settings by clicking gear icon](#)
- 3) [Select appropriate Control Over method](#)
 - Ethernet**
No additional information needed (automatically senses ports)
 - WiFi**
Select client WiFiRanger's SSID and enter WPA key
- 4) [Click Save Changes](#)
- 5) [Select WFRControl then Scan and Connect on Main tab](#)

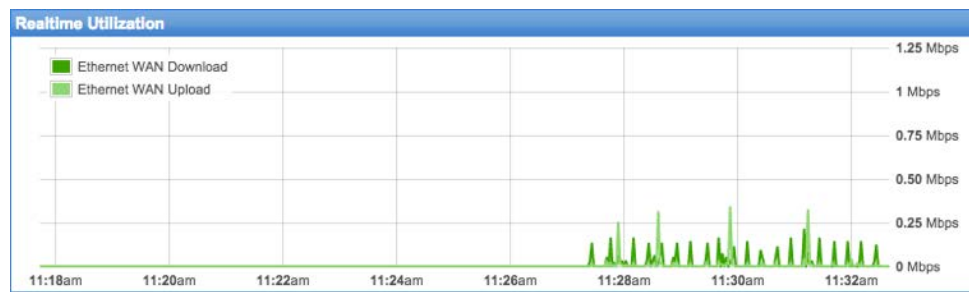


Power Only Mode is used only in troubleshooting situations which require the outdoor unit to be powered up by the indoor router, but not to have data interconnectivity. This mode is helpful when encountering trouble pairing WFRControl, allowing direct access to the outdoor unit's wireless network and Control Panel so that it can be reset to factory defaults before attempting pairing again.



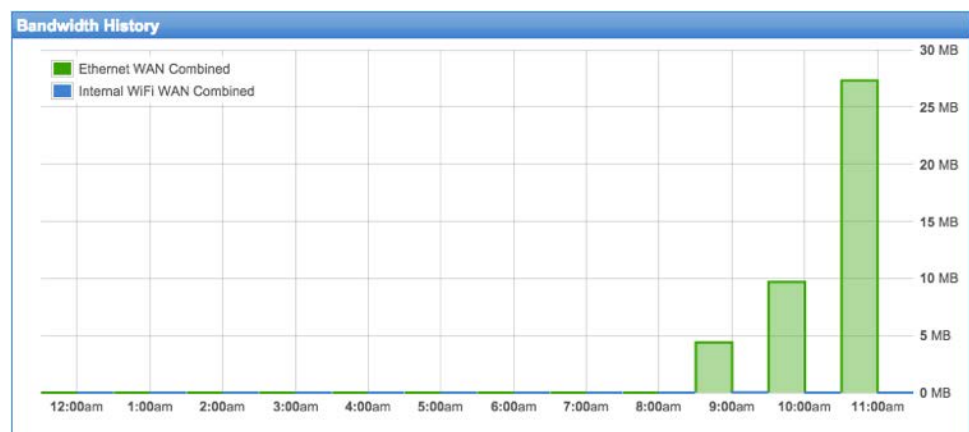
USAGE

Realtime Utilization



Monitor the past 15 minutes of bandwidth activity on the Usage tab of the Control Panel. Speeds will be indicated on the graph, and each individual Internet Connector will be color coded with Download and Upload separated by shade of color.

Bandwidth History



Analyze past consumption of data on the Usage tab of the Control Panel. History is broken out by Internet Connector using color coding. The desired history to display can be changed using various drop-down options below the graph. A table of usage will display by clicking the Show History button on the right. This table can also be downloaded as a CSV export.

WAN Combined	Ethernet	Internal WIFI	Total
1:00 pm	0.60 MB	0 MB	0.60 MB
12:00 pm	8.81 MB	0 MB	8.81 MB
11:00 am	33.08 MB	0 MB	33.08 MB
10:00 am	9.67 MB	0 MB	9.67 MB
9:00 am	4.38 MB	0.03 MB	4.41 MB
8:00 am	0 MB	0.01 MB	0.01 MB
7:00 am	0 MB	0 MB	0 MB
6:00 am	0 MB	0 MB	0 MB
5:00 am	0 MB	0 MB	0 MB
4:00 am	0 MB	0 MB	0 MB
3:00 am	0 MB	0 MB	0 MB
2:00 am	0 MB	0 MB	0 MB
Total	56.54 MB	0.04 MB	56.58 MB
	Reset	Reset	Reset All

Export CSV



Bandwidth Groups

Create custom groups of internet sources to combine the total data usage into one viewable and trackable statistic. This helps with keeping track of overall usage of a shared 4G plan that may include a MiFi and multiple smart phones. Instead of only having visibility for each individual device on the shared 4G plan, you can lump the sum of their usage together to accurately avoid overages.

Configuring Bandwidth Group

- 1) Go to Usage tab on Control Panel
- 2) Ensure that Usage Tracking is On
- 3) Enter new Group Name under Bandwidth Groups section
- 4) Select desired color from palate (used for group title and graph bars)
- 5) Click Add
- 6) Follow on-screen options to combine desired internet sources into Group
- 7) Click Add to Group to put another device in the Group
- 8) Click Save Changes

The screenshot shows a 'Bandwidth Groups' panel with a blue header and a 'Remove' button in the top right. It contains a list of groups: 'MY VERIZON' (with a red 'X' remove button and an 'Add to Group' button), 'Internal WiFi WAN', 'SSID: EvansiPhone', 'Cellular', and 'All'. Each group has a red 'X' remove button. At the bottom, there is a text input field for 'Group Name', a purple color selection square, and an 'Add' button.

Billing Periods

Set a Billing Period to break-out data usage totals into monthly timeframes. This feature is useful for keeping better track of how much Cellular data is used within a monthly billing period. Use this feature in conjunction with a Bandwidth Group created for your Cellular devices to keep tabs on how much data is used within the group during the billing period.

Configuring Billing Period

- 1) Go to Usage tab on Control Panel
- 2) Ensure that Usage Tracking is On
- 3) Select Internet Connector or Bandwidth Group
- 4) Select Billing Date upon which usage is reset
- 5) Click Add
- 6) Click Save Changes

The screenshot shows a 'Billing Periods' panel with a blue header and a 'Remove' button in the top right. It displays 'My_Verizon Billing date on the 1st at 12:00 AM' with a red 'X' remove button. Below this, there is a dropdown menu for 'Cellular', a 'Billing Date:' label, and two dropdown menus for '1st' and '12:00 AM', followed by an 'Add' button.



Device Restrictions

Make rules to manage internet speeds or access for particular devices and Internet Connectors. This gives you control over bandwidth usage for optimizing performance, limiting individuals, and avoiding overages on data plans. Device Restrictions can be used creatively to schedule when children have internet access, cutoff 4G service when approaching monthly limits, and limiting internet speeds or downloads on particular devices. The applications are as diverse as you can imagine.

Configuring Device Restriction

- 1) Go to Usage tab on Control Panel
- 2) Ensure that Usage Tracking is On
- 3) Select all or a particular Internet Connector or network interface
- 4) Select all Devices or a particular one (check Exclude if effect should apply to all other Devices)
- 5) Select desired Effect when restriction engages
- 6) Set Schedule for when restriction applies
- 7) Set Threshold for amount of bandwidth consumed that triggers Effect
- 8) Set Reset Interval for timetable that the bandwidth Threshold will be reset on
- 9) Click Add

A limit speed restriction will be highlighted in yellow when active and a disable internet access restriction will be highlighted in orange when active. A message will also display on the Control Panel that indicates that the restrictions is in effect. Any restrictions that are not highlighted in yellow or orange are not currently being applied.

Active Color Codes

Limit Speed: **Yellow**

Disable Internet Access: **Orange**

Device Restriction	Effect	Schedule	Limit Type	Activation	Usage	Reset Interval	Remove
ETHERNET WAN	STOP INTERNET BLOCKS TRAFFIC WHEN LIMIT IS REACHED	10:00PM TO 8:00AM EVERY DAY	NONE	ALWAYS ACTIVE	0 KB	Reset MONTHLY On 1st at 12:00 AM	✖
ALL INTERNET CONNECTOR	LIMIT SPEED DOWNLOAD: 25Mbps UPLOAD: 25Mbps	ALL DAY EVERY DAY	NONE	ALWAYS ACTIVE	5.45 KB	Reset MONTHLY On 1st at 12:00 AM	✖
ALL INTERNET CONNECTOR	LIMIT SPEED DOWNLOAD: 10Mbps UPLOAD: 10Mbps	ALL DAY EVERY DAY	COMBINED (DOWNLOAD AND UPLOAD)	5 GB	139.27 MB	Reset DAILY 12:00 AM	✖
ETHERNET WAN 10.167.80.162	STOP INTERNET BLOCKS TRAFFIC WHEN LIMIT IS REACHED	ALL DAY EVERY DAY	NONE	ALWAYS ACTIVE	22.58 KB	Reset MONTHLY On 1st at 12:00 AM	✖

ADD RESTRICTION
CREATE RULES TO THROTTLE SPEEDS OR STOP INTERNET CONNECTIVITY TO OPTIMIZE USAGE

SELECT INTERNET CONNECTOR
CHOOSE ALL OR A PARTICULAR INTERNET CONNECTOR THAT THIS RESTRICTION WILL APPLY UNDER

Select Internet Connector

Next



OPTIONS

Guest Wireless Network

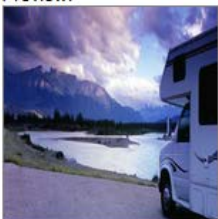
Share internet with guests and friends without needing to share your private password. The Guest Wireless Network is an optional broadcast that is totally independent of your Private Wireless Network. Because the access can be time-limited, it could also be ideal for use with children whose internet access you wish to schedule.

Configuring Guest Wireless Network

- 1) Go to WiFi tab on Control Panel
- 2) Check Broadcast to On
- 3) Enter desired Name (SSID) and Passcode
- 4) Select Duration guests have access per use
- 5) Select Interval which guests can access internet again
- 6) Enter Title, Sub Title, and Redirect URL for guest login page (optional)
- 7) Upload Header Image for guest login page if desired (100kb max file size)
- 8) Enter Message for guest login page
- 9) Click Save Changes

The Guest Wireless Network will now broadcast an OPEN wireless signal based on the Name (SSID) given. Once guests connect to the network, they must open a web browser where they will be redirected to the guest login page. Then guests must enter the Passcode in order to gain internet access.

Guest Wireless Network

?	Broadcast	☒ On ☐ Off
?	Name (SSID)	WiFiRanger_Guest
?	Passcode	passcode6780
?	Duration	24 Hours
?	Interval	Daily
?	Title	
?	Sub Title	
?	Redirect URL	
?	Header image	Choose File No file chosen Preview:  Remove image
?	Message	Free internet access provided by the coolest person in the world! Enter passcode6780 for access



Social Info

Display your social profile to other WiFiRanger owners that are in the same vicinity. If a WiFiRanger owner has activated his Social Info feature, you will see a "person" icon displayed next to his WiFi Network on the Main tab of the Control Panel. Hover over the icon to view the Social Info. You do not need to connect to the WiFi in order to see the Social Info, as a simple Scan will display the icon.

Connect	23 WIFI Networks	Signal	Type	Channel	Speed	Mac Address	Tag
Connect	BlueMeshNetworks	n	WPA	7	1.06 Mbps	DC:9F:DB:38:08:BA	☐
Connect	Pvt.WiFiRanger_Go6879	n	WPA	5		02:5E:0C:31:12:F9	☐
Connect	Pvt.WiFiRanger_Sky.1925	n	WPA	4		02:27:22:B3:F8:A5	☐
Reconnect	test	n	OPEN	4		04:27:22:B3:F8:A5	☐
Disconnect							
Connect	Pvt.WiFiRanger.1036	n	WPA	7		02:15:6D:4C:AC:16	☐
Connect	Public.1036	n	OPEN	7		04:15:6D:4C:AC:16	☐
Connect	ZyXEL-03CD57	n	WPA	2		FC:8F:C4:03:CD:56	☐
Connect	CSS	n	WPA	1		6C:B0:CE:25:E3:3E	☐
Connect	Boyle Network	n	WPA	11		00:26:BB:78:66:1B	☐
Connect	Pvt.WiFiRanger_X.5747	n	WPA	7		02:27:22:EE:02:2B	☐
Connect	Pvt.Tactical					02:27:22:00:07:BC	☐
Connect	BN Guest Network					06:26:BB:78:66:1B	☐
Connect	DIRECT-UU-VIZIOTV					02:6B:9E:A6:85:F1	☐
Connect	Pubnet5747	n	OPEN	7		04:27:22:EE:02:2B	☐
Connect	FieldSync	n	WPA	11		00:27:22:F3:35:69	☐
Connect	CPR Idaho	n	WPA	8		DC:9E:DB:02:DB:63	☐

Social Info
Interests: Flea markets,Live music,kicking things,living awesomely,Playing music
Website: http://wifiranger.com/
About Me: past the Shire, over the rainbow, around Tamriel, and just before Albion..

Configuring Social Info

- 1) Go to WiFi tab on Control Panel
- 2) Enter desired info (Interests, Website address, Find Me directions)
- 3) Click Save Changes

Social Info

?

Interests

Interest

BBQ,Photography,Biking,Guns,Hiking,Motorcycles,Skiing

?

Web Site

myblog.com

?

Find Me

Campsite 54 with the silver Explorer Sport Trac and the perpetual bonfire

Entering info into any of these fields is optional. For example, you could fill out only the Website field with a link to your Facebook profile or blog, leaving Interests and Find Me blank. This means that only the Website info will be displayed to others on your own social icon. Find Me directions are used to give others a way to find your campsite or location so that you can easily make new friends.



System Preferences

Numerous settings are managed on the Setup tab under System Preferences.

Failover

RECOMMENDED ON

Automatically searches for internet connectivity after going offline. By default, Failover is turned off to ensure that the user does not experience a reconnect loop in case internet is unavailable out of box. For most users, it is recommended to turn Failover On once familiarized with the product and able to get online via at least one connection device.

Failover Interval

RECOMMENDED 5 MINUTES

Checks for internet connectivity based on set time interval. High frequency is recommended for users needing immediate internet recovery while less frequent checks are recommended for situations where there are limited internet sources that are all slow or unstable.

Multi-WAN Mode

Select mode for Multi-WAN based on desired operation. Read more under Optimizations > Multi-WAN

Safe Surf

RECOMMENDED OFF DURING GENERAL USE

Encrypts all data through secure servers to eliminate dangers from man-in-middle attacks at public networks. Increase security by turning this feature on when doing sensitive web activity. It is recommended to turn Safe Surf off for general use as performance is slightly decreased when encrypted.

Control Panel Redirect

RECOMMENDED ON

Automatically force your web browser to bring up the Control Panel if offline. This feature alerts the user that the WiFiRanger is offline, prompting them to attempt to get back online.

Initial Auto Connect

RECOMMENDED ON

Automatically attempts to get online after booting up. Having Initial Auto Connect set to On may require that you wait a minute or two after powering the WiFiRanger up, but it makes the internet experience seamless. Most of the time, the router will automatically get online after powering up.

Attempt Auto Login

RECOMMENDED ON

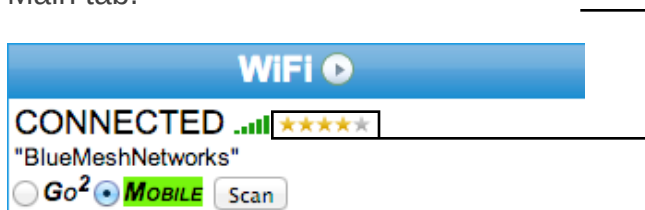
Automatically attempts to bypass login/agreement page at Filtered WiFi Networks. Public networks that require a username and password cannot be bypassed, but Filtered networks that simply have a one-click access button may be automatically bypassed with this feature on.



FEEDBACK

Network Reviews

Submit reviews of WiFi Networks by clicking the stars to the right of the status and signal bars on the Main tab.



Fill out the information in the review popup and then submit it. The Venue Name automatically populates if the location or business is recognized by Google Maps. These reviews are collected in an effort to improve the WiFi Hotspot experience for all. Accurate network reviews provide valuable insight to travelers and businesses alike.

Venue Name:	BlueMesh Networks	Rating:	★★★★★
City:	Meridian	SSID:	BlueMeshNetworks
State / Province:	ID	BSSID:	DC:9F:DB:38:08:BA
Site Number / Area:	Build Room	Signal:	📶
		Speed:	12.28 Mbps
Comments:	Very nice WiFi service and excellent staff. They even give out free candy!		
		Global IP:	10.128.41.86



Registration

On the Register tab, you may register a mywifiranger.com account that has many new and powerful features being developed.

Owner Information

? First Name *	
? Last Name *	
? E-mail *	
? Phone Number	

MyWiFiRanger.com

? User Name	
? Password	

Install Information

? Type	
? Make	
? Model	
? Length	
? Serial Number	

Registration

? Remind me to Register	☒ On ☐ Off
-------------------------	---



OPTIMIZATIONS

Multi-WAN

Unify All Internet Sources

Multi-WAN has three modes to ensure maximum reliability and speed. Combine your 3G/4G Cellular device, WiFi Networks, and up to two Ethernet WAN connections from hardwired internet sources. Nothing compares to this easy-to-use and dependable way to blend multiple internet sources together.

Order	Internet Connector	Description	Multi-WAN ?	Active	Settings
1	Ethernet WAN	WAN PORT FOR HARDWIRED CONNECTION TO MODEM OR LAN NETWORK	☒	☒	
2	Internal WiFi WAN	BUILT-IN WIRELESS RADIO FOR CONNECTION TO NEARBY WiFi NETWORKS	☒	☒	
3	Cellular	USB PORT FOR CONNECTION TO 3G/4G AIRCARD OR MiFi DEVICE	☐	☒	
	WFRBoost	EXTERNAL UBIQUITI RADIO FOR BOOSTED CONNECTION TO WiFi NETWORKS		☐	
	WFRControl	PAIRED OUTDOOR WiFiRANGER FOR BOOSTED CONNECTION TO WiFi NETWORKS		☐	

Check Multi-WAN for each Internet Connector that you would like configured to function jointly using the below modes. Once selected, choose the desired Multi-WAN Mode under System Preferences then click Save Changes. Learn more about each mode and its intended uses on the following pages.

MULTI-WAN MODES

Hot Standby

Prepare backup internet sources for immediate changeover following internet failure

- Exclusively utilize primary connection unless it fails
- Back up primary connection with a Cellular device or other source
- Prepare backup connection in background for instantaneous swap over

Load Balance

Combine multiple internet sources for stacked speed and fail-safe reliability

- Evenly disperse usage over multiple sources
- Maximize stability by actively using multiple sources
- Stack speeds of multiple sources for improved video streaming and downloading

Dynamic

Prefer primary internet source with temporary speed boosts from secondary sources

- Mainly use primary connection until additional speed is needed
- Conserve data usage of secondary connection and use only when needed
- Set speed threshold which triggers secondary source to supplement primary source



HOT STANDBY

The Multi-WAN Hot Standby mode makes it possible to set up multiple internet connections which serve as instant backups to your primary connection if it goes offline or if its speed drops below the Slowest Usable Speed. This mode can be very useful if your primary source is local WiFi while your Cellular Aircard/MiFi is serving as a secondary backup connection. Cellular data will not be used unless the local WiFi fails.

When using an RV Pack (indoor Go/Go2 and outdoor Mobile/Sky), Multi-WAN is even more useful, as your indoor WiFiRanger can be connected to a separate local WiFi source than your outdoor Mobile/Sky, giving you two WiFi Networks. This means you could have one WiFi Network as your primary, while having up to two backup connections-- one WiFi and one Cellular.

Configuring Hot Standby

- 1) Select Hot Standby for Multi-WAN Mode drop-down on Setup tab
- 2) Check Multi-WAN for each desired Internet Connector
- 3) Order Internet Connectors in preferred order (primary at top in 1st position with secondary following)
- 4) Click Save Changes
- 5) Connect Internet Connectors to internet on Main tab or await automatic connections

WIFI		Internet		Cellular			
CONNECTED ★★★★★ BlueMeshNetworks Scan		ONLINE Using WiFi Auto Connect		Tether Active AC341U Disconnect			
Connect	19 WIFI Networks	Signal	Type	Channel	Speed	Mac Address	Tag
Reconnect Disconnect	BlueMeshNetworks	n	WPA	7	22.01 Mbps	DC:9F:DB:38:08:BA	

On the Main tab, any backup connections will be highlighted in orange or have an orange flame icon next to them, indicating that they are ready for immediate switchover in case the primary internet source fails.



LOAD BALANCE

The Multi-WAN Load Balance mode makes it possible to spread your data usage across multiple internet connections simultaneously. This feature is very useful for combining the speed and dependability from both WiFi and Cellular. In many cases, the speed of local WiFi networks is slow but the dependability is good. On the other hand, Cellular can often be less stable but much faster. With Load Balancing, the best of both WiFi and Cellular are combined for solid reliability and fast speed.

When using an RV Pack (indoor Go/Go2 and outdoor Mobile/Sky), Multi-WAN is even more useful, as your indoor WiFiranger can be connected to a separate local WiFi source than your outdoor Mobile/Sky, giving you two WiFi Networks. This means you could have one WiFi Network as your primary, while having up to two more combined connections-- one WiFi and one Cellular.

Configuring Load Balance

- 1) Select Load Balance for Multi-WAN Mode drop-down on Setup tab
- 2) Check Multi-WAN for each desired Internet Connector
- 3) Click Save Changes
- 4) Connect Internet Connectors to internet on Main tab or await automatic connections

WIFI		Internet		Cellular			
CONNECTED ★★★★★ BlueMeshNetworks Scan		ONLINE Using WiFi+Cellular 		Tether Active AC341U 			
Connect 22 WIFI Networks		Signal	Type	Channel	Speed	Mac Address	Tag
 	BlueMeshNetworks	n	WPA	7	22.01 Mbps	DC:9F:DB:38:08:BA	

On the Main tab, all active internet sources will display under the Internet Status which indicates that these sources are Load Balancing.

NOTE

Performing speedtests on some websites may not work when using Load Balancing as these speedtests are not designed to support multiple internet sources at once.



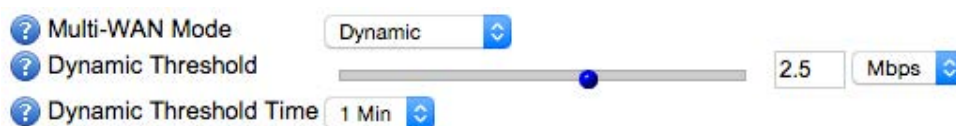
DYNAMIC

The Multi-WAN Dynamic mode makes it possible to boost the speed of your primary internet source using a secondary source only when needed. For example, this feature would help save Cellular data by using local WiFi as the primary internet source, with a 4G Aircard/MiFi used only when needing extra speed. Conserve data usage on your secondary source but utilize its speed when exceeding a set threshold, such as for streaming video or downloading files.

Configuring Dynamic

- 1) Select Dynamic for Multi-WAN Mode drop-down on Setup tab
- 2) Set Dynamic Threshold at speed which triggers secondary boost
- 3) Set Dynamic Threshold Time at time period for average speed to be based on
- 4) Check Multi-WAN for each desired Internet Connector
- 5) Order Internet Connectors in preferred order (primary at top in 1st position with secondary following)
- 6) Click Save Changes
- 7) Connect Internet Connectors to internet on Main tab or await automatic connections

It is recommended to set the Dynamic Threshold at a speed which the primary internet source would normally achieve. For instance, if your primary internet source is local WiFi normally at 3Mbps, then set the Dynamic Threshold just under that speed at 2.5Mbps. This means that when you sustain an average of 2.5Mbps+ for the Dynamic Threshold Time specified, your secondary internet source will step in and boost your speeds. The average is rolling, so once the heavy usage is done, and the average speed is less than 2.5Mbps, your secondary connection will no longer be used to boost the speed.



NOTE

If watching brief videos online or performing small downloads is taking too long, and only the primary internet source is being used, then you should set the Dynamic Threshold Time to just 1 minute. This means that it will take less time for the average speed to be calculated, therefore using the secondary internet source to boost your speeds sooner. To use your secondary internet source less frequently, conserving its data plan, simply increase the Dynamic Threshold Time to 3 minutes and perhaps increase the Dynamic Threshold slightly.

Be sure to not increase the Dynamic Threshold higher than what your primary source can sustain, otherwise your secondary source will never boost the speed. The Dynamic Threshold speed must be exceeded for a sustained period of time before the secondary internet source steps in to boost your speed.



Profiles

REQUIRES HIDE ADVANCED FEATURES OFF ON SETUP TAB

On the Setup tab, the Profiles feature allows for saving a particular configuration which can be loaded to easily setup the WiFiRanger without requiring manually changing settings all over the Control Panel. Save your desired default configuration to easily allow for reverting back to your favorite settings. Create multiple Profiles to switch between configurations that are designed for particular circumstances or locations.

Profiles make saving and loading your customized preferences convenient.

Using Profiles

1) Configure WiFiRanger as desired

ALL CURRENT SETTINGS WILL BE PUT INTO A NEW PROFILE

2) Type in a Profile Name and click Save Profile

BEING DESCRIPTIVE WITH THE PROFILE NAME IS HELPFUL

3) Load or Delete Profiles as desired

THE TWO DEFAULT PROFILES SHOWN (ETHERNET ONLY & WiFi ONLY) CANNOT BE DELETED

Profiles	Load Profile	Delete
Ethernet Only	Load	
WiFi Only	Load	
Profile Name	Save Profile	



Internet Connectors

On the Setup tab, customize how the WiFiRanger prioritizes connections and acts automatically behind the scenes to keep you online through the best source. On the Main tab, an Auto Connect can be initiated to have the WiFiRanger attempt to get online according to the Auto Connect Order.

Order	Internet Connector	Description	Multi-WAN ?	Active	Settings
1	Ethernet WAN	WAN PORT FOR HARDWIRED CONNECTION TO MODEM OR LAN NETWORK	☒	☒	
2	Internal WiFi WAN	BUILT-IN WIRELESS RADIO FOR CONNECTION TO NEARBY WiFi NETWORKS	☒	☒	
3	Cellular	USB PORT FOR CONNECTION TO 3G/4G AIRCARD OR MiFi DEVICE	☐	☒	
	WFRBoost	EXTERNAL UBIQUITI RADIO FOR BOOSTED CONNECTION TO WiFi NETWORKS		☐	
	WFRControl	PAIRED OUTDOOR WiFiRANGER FOR BOOSTED CONNECTION TO WiFi NETWORKS		☐	

Order

Adjust the priority of connection Internet Connectors (1 is highest priority). The Internet Connector in 1st position will be the first attempted during any automatic connections, and will also be the primary internet source if Multi-WAN is enabled. It is recommended to sort Internet Connectors based on which sources you prefer to use. For instance, if you usually have free WiFi available, then move Internal WiFi WAN, WFRBoost, or WFRControl to the top and then have your Cellular in a secondary position in order to save your data plan.

Multi-WAN

Multi-WAN has three modes to ensure maximum reliability and speed. Combine your 3G/4G Cellular device, WiFi Networks, and up to two Ethernet WAN connections from hardwired internet sources. Nothing compares to this easy-to-use and dependable way to blend multiple internet sources together. Check each Internet Connector that you wish to have use this feature then select the desired Multi-WAN Mode under System Preferences.

Active

Make Internet Connectors active or inactive using the Active checkbox. If inactive, the Internet Connector will not function during automatic connections and will not display on the Main tab.

Settings

Expand the advanced Settings of an Internet Connector by clicking its blue gear icon. The Internet Connector must be Active prior to expanding the advanced Settings.



Tags

Tags provide a way to change how the WiFiRanger interacts with certain WiFi Networks. Add Tags on the WiFi (create all types) or Main (prefer checkbox only) tabs to make your WiFiRanger treat networks in a variety of ways.

Tags can be partial (multiple networks) rather than explicit (particular network), meaning that just part of a network name could be used to create a tag that will effect multiple similarly named networks. For example, creating a Prefer Tag for “Tengo” would mean that any networks that contain that case sensitive phrase would be preferred. This comes in handy when prioritizing or ignoring common public networks that share a similar naming scheme.

Prefer

Create a Prefer Tag for any WiFi Networks you want the WiFiRanger to automatically prioritize and favor during an Auto Connect.

Ignore

Create an Ignore Tag to have the WiFiRanger skip WiFi Networks which for whatever reason are not desirable during an Auto Connect.

Last Try

Create a Last Try Tag for a WiFi Network is to be resorted to after exhausting all other wireless signals. This type of Tag is useful for WiFi Networks from MiFi devices or Hotspot Phones in order to conserve bandwidth when possible yet use the 3G/4G data when absolutely necessary.

Auto Login

Create an Auto Login Tag for Filtered WiFi Networks that require membership and periodic login credentials. This feature makes keeping logged in to the supported service providers automatic. Enter the partial network name and click add to be prompted for the service provider and your username/ password.

Slowest Usable Speed

REQUIRES HIDE ADVANCED FEATURES OFF ON SETUP TAB

On the Setup tab, expand the Settings of a particular Device by clicking its gear icon where you can enable the Slowest Usable Speed feature. This feature will disconnect the WiFiRanger from an internet source if the speed drops below the defined threshold.

Slowest Usable Speed is helpful to ensure that sluggish or overloaded internet connections are avoided to automatically favor faster connections. The caution is to realize that placing a higher speed threshold will limit the connections available to the WiFiRanger. Higher thresholds equal less options.





Wireless Radio

REQUIRES HIDE ADVANCED FEATURES OFF ON SETUP TAB

Several options for the wireless radio can be changed on the WiFi tab.

Wireless Radio

? Channel	Automatic
? Power	High
? Mode	802.11n/g

Channel

RECOMMENDED AUTOMATIC

Hardcode the wireless channel as desired. This channel will not always be the one used, as the connection method Internal WiFi will override the hardcoded channel when connected to a WiFi Network. The hardcoded channel will be broadcasted when Internal WiFi is not connecting to another signal on a different channel. Automatic is recommended as the WiFiRanger intelligently selects the least noisy channel to use when booting up.

Power

RECOMMENDED LOW FOR INDOOR & HIGH FOR OUTDOOR

Adjust the power of the wireless radio to the optimal level which varies by circumstance. In some cases, less is more. Wireless noise is a key factor for wireless performance. To put it in perspective, when there are many people talking in the same room, it gets more difficult to hear as more people talk, or as they talk *louder*. This principle helps to improve WiFi performance and reliability by selecting the appropriate power.

Some users of multiple WiFiRangers (RV Packs) can benefit from setting the Radio Power appropriately. In the case of a WFRControl installation, setting the Power of the indoor router to Low with the outdoor router set to High will give best performance. This reduces wireless noise inside while maintaining the needed power outside to reach distant WiFi Networks.

Mode

RECOMMENDED 802.11N/G

Change the wireless mode that your WiFiRanger broadcasts to an older 802.11 wireless standard to allow old devices to connect. In most cases, having the mode to 802.11n/g is preferred, as this is the fastest and most current wireless operating mode, which translates to more speed. Change the Mode only when old devices do not support connecting to the 802.11n/g standard.



Range Options

REQUIRES HIDE ADVANCED FEATURES OFF ON SETUP TAB

When using Range automatic connections in an area that has numerous available WiFi Networks, it may be helpful to limit how many networks are attempted. This will reduce the amount of time taken for the WiFiRanger to establish an internet connection. Configure Range Options on the WiFi tab.

Configuring Range Options

- 1) Go to WiFi tab of Control Panel
- 2) Select desired number of Attempted Networks
- 3) Select desired level of Signal Strength
- 4) Select desired Wireless Standard
- 5) Click Save Changes

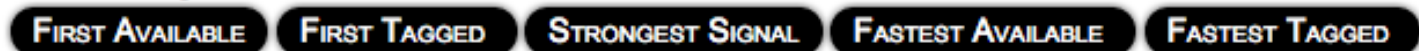
Range Options

? Attempted Networks	All Available
? Signal Strength	Any
? Wireless Standard	Any
? Restrict Networks	No Restrictions

By requiring higher Signal Strength and Wireless Standards, your connection possibilities are reduced. The same applies to lowering the amount of Attempted Networks or Restricting Networks to tagged-only. Increasing standards reduces the time taken to establish an automatic connection, but also reduces the likelihood of establishing a connection at all. Therefore, it is not recommended to limit Range Options too severely.

To attempt a Range, go to the Main tab and click the arrow icon to the right of the WiFi box header. This will drop-down the Perform Range options. Simply click the desired option which will process a Range which is limited by your Range Options configured on the WiFi tab.

Perform Range





ADVANCED

Fusion

Fusion Networking™ interconnects all of the WiFiRanger routers together that are online and a part of the same fuse. This creates an interconnected private network (LAN) that can span the world, allowing for easy remote desktop access, quick file sharing, global NAS hosting, and much more. Fusion Networking™ is the most simple and intuitive internet cloud Global Local Area Network.

The ideal scenario involves a dedicated and stationary indoor router that has a static Global IP on reliable internet. Fusion Networking™ now interconnects your mobile clients through the fixed host.

Configuring Fusion Networking™

1 Setup a Fusion on the Fusion tab

Host a Fusion Network (requires Global IP)

Add a Fusion Host (requires ID, IP, and Key)

2 Add a Fusion Client (requires ID and Key)

Fusion Networking™

Host a Fusion Network

Add a Fusion Host

Add a Fusion Client

Port Forwarding

On the Advanced tab, create a port forward using the standard method with the IP Address of the destination device/computer, the starting/ending ports, and the protocol in use.

Port Forwarding	Starting Port	Ending Port	Protocol	Delete
No ports are being forwarded				
IP Address	Start Port	End Port	TCP	Add



DNS

On the Advanced tab, configure the appropriate DNS settings to determine what domains are used for assessing online statuses. This setting is generally fine to leave on Auto.

In some cases, setting the DNS statically is necessary. For WFRControl installations, it is recommended to have the outdoor slave set to Auto while the indoor master is statically assigned to Google's DNS servers.

Static Recommendations (Google)

DNS

?

DNS

☐ Auto ☒ Static

?

Static DNS 1

8.8.8.8

?

Static DNS 2

8.8.4.4

?

Static DNS 3

?

Static DNS 4

DMZ

On the Advanced tab, set a DMZ IP Address of a server behind the WiFiRanger. DMZ stands for Demilitarized Zone, which in computer security terms means that this server is exposed through the router's firewall so that access is granted to the DMZ server from the internet.

Hosting a DMZ server behind a WiFiRanger does not compromise other devices or computers on the LAN. Only the specified server will be exposed to the internet.

DMZ

?

DMZ IP Address



Static IP

On the Setup tab, each Device can be set to a static IP by expanding the Settings after clicking the gear icon. This allows for manually assigning the WiFiRanger with a static IP by Device.

This feature is useful if connecting to an internet source that does not issue DHCP addresses. In these cases, assign a Static IP Address within the source's IP scheme and enter the corresponding Subnet Mask and Gateway IP.

Once a Static IP is configured for the appropriate Device, connect to the non-DHCP internet source.

? Static IP Address	
? Static Subnet Mask	
? Static Gateway	

Private LAN IP Alias

On the Advanced tab, create Private LAN IP Aliases that bridge up to two IP subnets with the WiFiRanger's unique DHCP subnet. This feature allows for easily placing a WiFiRanger into an existing network that was on a different subnet with statically assigned devices. By creating a Private LAN IP Alias, devices issued a DHCP address will also see anything statically assigned in the IP Alias range.

To make an IP alias, enter the desired Gateway IP and Subnet separated by a comma (no spaces). In this example, anything statically assigned with 10.100.254.**2-254** will be able to communicate with all other devices connected to the WiFiRanger which are receiving the regular DHCP addresses.

IP Alias Format

xxx.xxx.xxx.1,255.255.255.0 (*Gateway,Subnet*)

Private LAN IP Alias	
? IP Alias 1	10.100.254.1,255.255.255.0
? IP Alias 2	



Products

WiFiRanger HOME

Discontinued

Indoor router that was originally named the WiFiRanger Pro when released in 2010. The WiFiRanger Home is designed for basic wireless and wired networking needs. Fine features make it great for users looking for a simple and secure router.



SPECIFICATIONS			
BAND	2.4GHZ	LAN	4x (10/100)
ANTENNA	INTEGRATED 2X2 MIMO	WAN	1x (10/100)
THROUGHPUT	UP TO 150Mbps	USB	1x
STANDARDS	802.11 B / G / N	DIMENSIONS	162x132x29MM
BROADCASTS	1x PRIVATE / 1x PUBLIC	TEMPERATURES	-20C ~ +60C
ENCRYPTION	WPA2 PERSONAL 256BIT	POWER INPUT	5VDC



WiFiRanger X

Limited Release

Indoor router for excellent functionality in an all-in-one package. The WiFiRanger X boasts an external antenna which outperforms other indoor WiFiRangers, both in receiving and broadcasting. Uniquely equipped, the WiFiRanger X is powered by an AC source via its 24V Power Over Ethernet power supply. For an all-around favorite, the X fits the needs of many intermediate users.



SPECIFICATIONS

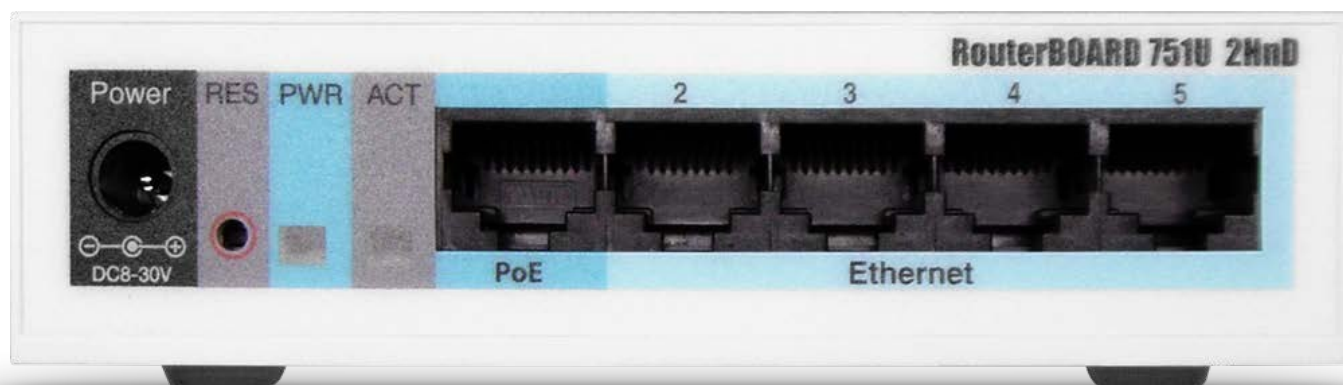
BAND	2.4GHz	LAN	4x (10/100)
ANTENNA	EXTERNAL 5dBi OMNI	WAN	1x (POE INPUT PORT)
THROUGHPUT	UP TO 300Mbps	USB	1x
STANDARDS	802.11 B / G / N	DIMENSIONS	162x132x29MM
BROADCASTS	1x PRIVATE / 1x PUBLIC	TEMPERATURES	-20C ~ +60C
ENCRYPTION	WPA2 PERSONAL 256BIT	POWER INPUT	24V POE

WIFIRANGER

WiFiRANGER Go

Discontinued

Indoor router made for travel and powering outdoor WiFiRangers. The WiFiRanger Go is an excellent pairing to an outdoor product, combining both indoor accessibility and outdoor range and reception. Its 5th LAN port is designed to power 12-24V Power Over Ethernet (POE) devices, such as the WiFiRanger WFRBoost, Mobile, MobileTi, Marine, or Sky.



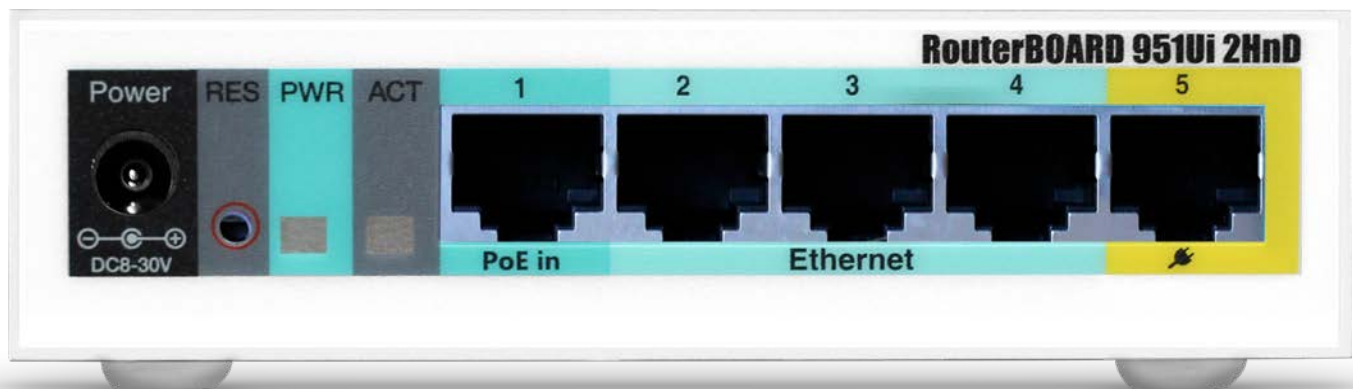
SPECIFICATIONS

BAND	2.4GHz	LAN	4x (10/100)
ANTENNA	INTEGRATED 2X2 MIMO	WAN	1x (10/100)
THROUGHPUT	UP TO 300Mbps	USB	1x
STANDARDS	802.11 B / G / N	DIMENSIONS	113x138x29mm
BROADCASTS	1x PRIVATE / 1x PUBLIC	TEMPERATURES	-20C ~ +50C
ENCRYPTION	WPA2 PERSONAL 256BIT	POWER IN / OUT	8-30VDC / POE PORT 5

WIFIRANGER

WiFiRANGER Go²

Indoor router made for travel and powering outdoor WiFiRangers. The WiFiRanger Go² is enhanced from the original Go design, including improvements in processor power, wireless range, and visual indicators. These renovations provide for better USB Cellular support and dependable WFRControl powering. One visual distinction is the red port 5 LED which indicates that LAN port 5 is hot and ready to power a Power Over Ethernet device.



SPECIFICATIONS

BAND	2.4GHz	LAN	4x (10/100)
ANTENNA	INTEGRATED 2X2 MIMO	WAN	1x (10/100)
THROUGHPUT	UP TO 300Mbps	USB	1X (AUTOMATIC CYCLING)
STANDARDS	802.11 B / G / N	DIMENSIONS	113x138x29mm
BROADCASTS	1x PRIVATE / 1x PUBLIC	TEMPERATURES	-20C ~ +50C
ENCRYPTION	WPA2 PERSONAL 256BIT	POWER IN / OUT	8-30VDC / POE PORT 5



WiFiRanger SKY

Outdoor router designed with durability for long-lasting performance in mobile applications. The WiFiRanger Sky is the preferred choice of RV Manufacturers for installation at the factory. With numerous traits such as vibration attenuation, UV-stabilized PVC, immersion waterproofing, and more, the Sky is the perfect choice for long lasting mobile wireless networking.



SPECIFICATIONS

BAND	2.4GHz	LAN	1x WAN/LAN (POE MODEL)
ANTENNA	INTEGRATED 2X2 MIMO	DIMENSIONS	200x120x55MM
THROUGHPUT	UP TO 300Mbps	TEMPERATURES	-20C ~ +50C
STANDARDS	802.11 B / G / N	DESIGN RATING	IEC 529 & NEMA
BROADCASTS	1x PRIVATE / 1x PUBLIC	ELEMENT PROOFING	UV, WATER, VIBRATION
ENCRYPTION	WPA2 PERSONAL 256BIT	POWER INPUT / DRAW	12-24VDC / 4W MAX



WiFiRANGER MOBILE

Outdoor router created for long-distance WiFi reception and broadcasting. The WiFi-Ranger Mobile is tough enough to endure the harshest conditions while powerful enough to reach otherwise unreachable WiFi signals at extreme ranges. The Mobile[™] version comes in an all-metal enclosure that is complemented with ESD-rated (electro static discharge) ethernet cable and a durable weather boot.



SPECIFICATIONS

BAND	2.4GHZ	LAN	1x WAN/LAN (TOGGLE)
ANTENNA	OMNI 3DBI MOBILE-RATED	DIMENSIONS	273x82x57MM
THROUGHPUT	UP TO 300MBPS	TEMPERATURES	-40C ~ +80C
STANDARDS	802.11 B / G / N	BRACKET DESIGN	ALUMINUM (MADE IN USA)
BROADCASTS	1X PRIVATE / 1X PUBLIC	ELEMENT PROOFING	UV, WATER, VIBRATION
ENCRYPTION	WPA2 PERSONAL 256BIT	POWER INPUT / DRAW	12-24VDC / 7W MAX



WiFiRANGER MARINE

Discontinued

Outdoor router created for long-distance marine uses. The WiFiRanger Marine is fitted with a high-gain, marine-rated antenna that allows for long-distance connections for watercraft docked in marinas or resting in bays near shore. Reach otherwise unreachable WiFi hotspots that are on shore with this powerful and intuitive router.



SPECIFICATIONS

BAND	2.4GHz	LAN	1x WAN/LAN (TOGGLE)
ANTENNA	OMNI 8.5 dBi	DIMENSIONS	900x82x57mm
THROUGHPUT	UP TO 300Mbps	TEMPERATURES	-40C ~ +80C
STANDARDS	802.11 B / G / N	BRACKET DESIGN	ALUMINUM (MADE IN USA)
BROADCASTS	1x PRIVATE / 1x PUBLIC	ELEMENT PROOFING	UV, WATER
ENCRYPTION	WPA2 PERSONAL 256BIT	POWER INPUT / DRAW	12-24VDC / 7W MAX





TERMS GLOSSARY

General Networking Terms

LAN	Local Area Networks refers to a wired/wireless network of directly interlinked devices
WAN	Wide Area Network commonly refers to internet networking or an ethernet port for internet
SSID	Name of a wireless broadcast which is seen when scanning for signals

WIFIRANGER TERMS

Ranging	Process of analyzing and connecting to available wireless broadcasts
First	Connects WiFiRanger to first available wireless broadcast
Best	Analyzes all wireless broadcasts in range and connects with best
Swap Connection	Connection method to change to once available
Standby	Being ready for an immediate swap after current connection fails
IP Alias	Bridges static devices on a separate IP subnet from DHCP subnet
Uptime	Length of time that a WiFiRanger has been operating since last boot
WiFiRanger ID	Unique six digit identification number for WiFiRangers
Firmware	Operating platform of router which supports all features and functions

WIFI NETWORK TYPES

Filtered	Networks that require user authentication done through a web browser
Open	Unencrypted network that anyone in range can connect with
WEP	Encrypted network which requires a HEX key or passphrase
WPA	Encrypted network which requires a key that is much stronger than WEP



WARRANTY

In case of any issue, please contact us at questions@wifiranger.com

30-day Satisfaction Guarantee

Allows you to return the product(s) in as-delivered condition within 30 days of purchase for a no-questions-asked, purchase-price refund.

1-year Warranty

Protects our product(s) against failure under normal/recommended use for a full year after purchase. Should our product(s) fail within a year after purchase, we will replace the failed hardware through our RMA process.

1-year Functionality Guarantee

The 1-year Functionality Guarantee allows you to have peace of mind, knowing that we back our product(s) as advertised. Should you experience a problem with the functionality of our product(s) that we have advertised to be working, we will have our support team troubleshoot until it is evident that a solution is not available, at which point, you may opt to return the product(s) for a purchase-price refund.

5-year Titanium Warranty

The WiFiRanger Mobile/Marine Titanium (discontinued July 2013) is backed by a 5-year Warranty that protects against failure under normal/recommended use for a full five years after purchase. Should the product fail within five years after purchase, we will replace the failed hardware through our RMA process.

Lifetime Mobile^{Ti} Warranty

The WiFiRanger Mobile^{Ti} (continued August 2013) is backed by a Lifetime Warranty that protects against failure under normal/recommended use for the life of the product. Should the product fail after purchase and within the product's continuance, we will replace the failed hardware through our RMA process.