

*The Verizon Tutorial:*

Using PORT FORWARD to properly setup your **WEBCAM XP PORT FORWARD RULE**.

You must log onto the router. Verizon uses <http://192.168.1.1> for the preferred DNS. If you click the link it will open to a LOGIN PAGE.



The USER NAME by default is "Admin". The Password by default is "Password", however that is not always correct. The username generally is "Admin", but the PASSWORD should be located on the router.

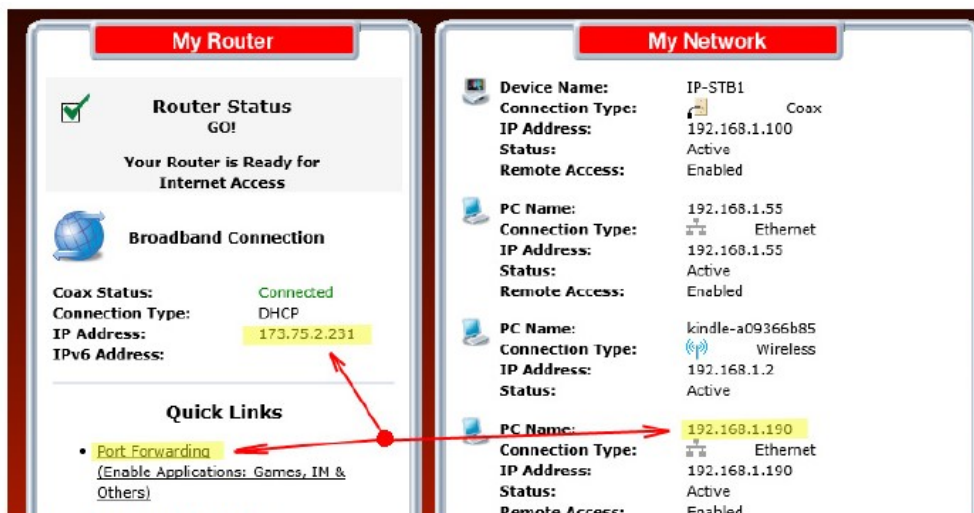


All the details you need to know are here...

The ESSID is your WIFI identifier: VCEE2 (your identity) should show up on your computer WIFI list. The WEP KEY is the PASSWORD for your ESSID - WIFI.

The Router PASSWORD on this tag is located below the bar code. You may see this or have a dedicated PW number.

Enter these numbers into your ROUTER LOGIN PAGE. (I suggest you change these at some point and save the new information in a safe place).



You should see something like this...

There are ICONS above in a banner and more information to the right, but this is what we want you to focus on.

There are three things of importance here. **You must have a local IP address for the computer you choose to stream.**

(This is located under your NETWORK ADAPTER IPV-4 properties).

That address must appear under the **MY NETWORK** column. (In this case the local IP is 192.168.1.190).

The LOCAL IP is an address which starts with 192.168.1.nnn where "nnn" = the number you chose. It should be inside the range between 50 and 150, however you can have any address up to 255.

The GLOBAL IP you will stream to is shown under the BROADBAND CONNECTION status (below DHCP). This is an IPV-4 address given to you by Verizon (in this case 173.75.2.231).

If you can verify these two addresses you are ready to FORWARD YOUR PORT. Click on "Port Forwarding" under the **MY ROUTER** column.

<input checked="" type="checkbox"/>	192.168.1.190	Destination Ports 8990 TCP Any -> 8990 UDP Any -> 8990	All Broadband Devices	Active	<input type="checkbox"/>
<input checked="" type="checkbox"/>	192.168.1.235	Destination Ports 8890 TCP Any -> 8890 UDP Any -> 8890	All Broadband Devices	Active	<input type="checkbox"/>
<input checked="" type="checkbox"/>	192.168.1.200	Destination Ports 8085 TCP Any -> 8085 UDP Any -> 8085	All Broadband Devices	Active	<input checked="" type="checkbox"/>

You should see a screen named "PORT FORWARDING" and on this screen you should see the PORT LISTING as shown above. What you must know...The BOX on the RIGHT beside the ACTIVE column, you must check this box before you use any of the BUTTONS above. The "Delete" and "Resolve Now" buttons are the most important. Since there is no "EDIT" function for PORT FORWARDING rules, you must "Delete" the existing rules or change something locally. Webcam XP cannot open more than one PORT at a time. Therefore if you wish to change the PORT NUMBER, you must "Delete" the existing RULE. Once you have deleted the rules in place, you will not see your local IP ADDRESS for the stream computer, so you must "create a new rule".

### Port Forwarding

This feature enables applications (Games, Webcams, IM & Others) by opening a tunnel between remote (Internet) computers and a specific device port inside your local area network(LAN).

**Create new port forwarding rule:**

192.168.1.200

Application to forward ..

- Custom Ports
- Show All Services
- FTP (File Transfer)
- HTTP (Web)
- HTTPS (Secured Web)
- IMAP (E-Mail)
- L2TP (VPN)
- L2TP Triggering
- Ping
- POP3 (E-Mail)
- SMTP (E-Mail)

Advanced >>

**Applied rules:**

Networked Computer / Device	Applied	WAN Connection Type	Status	Delete
localhost	Various	All Broadband Devices	Active	

Now you must select the APPLICATION TO FORWARD: In this case, and for all Webcam XP applications, you will set up CUSTOM PORTS. Select that choice from the drop down menu as shown above.

Scroll to the top of the PORT FORWARD screen and follow these steps:

### Port Forwarding

This feature enables applications (Games, Webcams, IM & Others) by opening a tunnel between remote (Internet) computers and a specific device port inside your local area network(LAN).

IP Address forward to or select from menu

- Specify IP
- IP-STB1 - 192.168.1.100
- 192.168.1.55
- kindle-a09366b85 - 192.168.1.2
- 192.168.1.190
- HPF4ACCE - 192.168.1.3
- 192.168.1.211
- 192.168.1.200
- android-432508db1f9b155 - 192.168.1.5
- new-host - 192.168.1.4
- IP-STB2 - 192.168.1.101
- android-81640561d8e84c36 - 192.168.1.7
- 192.168.1.175
- 192.168.1.69

**Helpful Hint:**  
Type in the IP Address you want to forward to, or select an already connected item from the list.

Advanced >>

Step ONE: You select the IP ADDRESS you wish to forward...(in this example I select 192.168.1.200). If your IP is not listed, you have incorrectly set the LOCAL IP ADDRESS. Or in simple terms, the ROUTER does not recognize your computer on the network (try again).

Next step is to prepare the PROTOCOL of the stream device.

**Port Forwarding**

This feature enables applications (Games, Webcams, IM & Others) by opening a tunnel between remote (Internet) computers and a specific device port inside your local area network(LAN).

**Create new port forwarding rule:**

192.168.1.200 Custom Ports **TCP** UDP Both

Add Reset Cancel **Advanced >**

**Applied rules:**

Networked Computer / Device	Applications & Ports Forwarded	WAN Connection
localhost 127.0.0.1	Verizon FiOS Service Tcp Any -> 4567	All Broadband Devices

**Helpful Hint:**  
Choose the protocol from the drop down menu, and then type in the port(s) you want to forward in the box given. You can type in a single port or port ranges separated by a dash(example:10-5670). Or you can type in multiple ports or port ranges separated by commas, (example: 3000,11000,5000-6000,5010-6020).

The PROTOCOL in this case is BOTH. The "Helpful Hint" can be confusing and it sometimes does not do what you expect so follow me here... Now click on the **Advanced >>** button as shown above, directly below the PROTOCOL menu...

**Port Forwarding**

This feature enables applications (Games, Webcams, IM & Others) by opening a tunnel between remote (Internet) computers and a specific device port inside your local area network(LAN).

**Create new port forwarding rule:**

192.168.1.200 Custom Ports **Advanced Settings**

Protocol **Both** Source Ports **Any** Destination Ports Specify 8085

WAN Connection Type All Broadband Devices Forward to Port Same as Incoming Port Schedule Always

Add Reset Cancel Basic <<

In the ADVANCED SETTINGS panel, you should set all boxes to look like those displayed. The DESTINATION PORT should be specified and entered here. Cam Radio Net supports the DEFAULT 8080 PORT. But most any port between 8000 and 8999 will work perfectly (in this example, I use 8085).

Note the Protocol is "Both" and the Source Ports is "Any". The boxes below should read as selected (default).

Now click the **Add** button below.

The RULE should be completed in a few seconds. The listing will show the RULE as ACTIVE and you are ready to go.

If you receive a "conflict message", note the error. In most cases a "conflict" will be the result of improper settings or you already have a port open for that address.

You have two possible resolutions. The PORT is already in USE by some other computer or device like X-BOX or SKYPE. If that is the case, you must delete those rules or

go back and change your LOCAL IP of the stream computer and start over from the top.

<input checked="" type="checkbox"/>	192.168.1.235	Destination Ports 8090 TCP Any -> 8090 UDP Any -> 8090	All Broadband Devices	Active	<input type="checkbox"/>
-------------------------------------	---------------	--	-----------------------	--------	--------------------------

Delete Resolve Now Apply Refresh

The PORT LIST is important...the IP must be shown as above and it must be checked to be ACTIVE.

No other PORT ADDRESSES should be displayed for this computer IP (none). You will be required to "Delete" any others that will cause a conflict.

The DESTINATIONS (column 2) must look like the example above. You are supporting "All Broadband Devices (column 3) and the PORT must be "Active" (column 4)

If the device is "Inactive" (column 4) you must click the **Resolve Now** button as explained previously. You must "check" the BOX in column 5 before you can use these buttons.

*If you continue to have conflicts...reset the router.*

Your final step is to activate the stream in WEBCAM XP and be sure you can see yourself from the stream link posted on the "Broadcast Page".

<http://yourcall.yadayada.net:8080> (example not a real address). If you can, make sure the Cam Radio Webmaster has your HOST name and PORT NUMBER. If you use any other source beyond number ONE, you must inform the webmaster as well.