

## Re: Wireless: an Infrastructure and an Ad-Hoc network how to assign IP addresses?

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*Source:*

[http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.network\\_web/2005-04/msg00819.html](http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.network_web/2005-04/msg00819.html)

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- *From:* Chuck <none@xxxxxxxxxxx>
  - *Date:* 10 Apr 2005 09:35:02 -0500
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On Sun, 10 Apr 2005 08:48:15 -0400, "J" <Jesse@xxxxxxxxxxxxxxxxxxxxxxxx> wrote:

>Saturday Eve  
>  
>Creating 2 networks; infrastructure hotspot, and adhoc peer-to-peer.  
>  
>Equipment  
> 2 computers  
> XP home: using Linksys WMP54G, set to use B only  
> 98se: using Linksys wmp11 B  
>  
> Router: BEFsr11 one port router  
>  
> Access point: Linksys wet11 Airlink  
>  
>The router is connected to the Airlink and to a local wireless internet provider antenna: this is an open Hot-Spot.  
>  
>The computers are separated by 1 floor and a brick wall.  
>  
>Both computers can use the Hot-Spot connection  
>  
>-----  
>I am having trouble with the Ad-Hoc connection:.  
>  
>The XP computer is using the Windows Wireless Configuration service.  
> (The Linksys WLAN configuration utility will not function.)  
>  
>The 98 comp. is using the Linksys WLAN configuration utility.  
>  
>I have entered the info for an Ad-Hoc network to link the computers, peer-to-peer.  
>Using the same SSID, WEP Shared encryption, 13 letter pass phrase, using channel 6.  
>  
>The XP computer can find the network, indicates it is connected and not connected.  
>The 98 computer cannot find the shared network.  
>  
>I figger this has something to do with DHCP since both computers are set to obtain an IP Address

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automatically.

>

>I cannot determine a way to allocate static addresses, and subnet mask, for the Ad-Hoc network while allowing dynamic addresses for

>the Hot-Spot network.

>

>Guidance please.

>

>J

Let's see if I understand what you're saying. You have 2 computers, each connecting wirelessly to a WET11, which connects to a BEFSR11. The BEFSR11 is your DHCP server. The WET11 is a bridge, which simply connects the wireless devices (2 computers) to the wired device (BEFSR11 router with DHCP).

This doesn't look like an ad-hoc setup to me. You have a WAP, the WET11, providing the SSID, right? So why are you running in ad-hoc mode, if both computers can use the Hot-Spot? And if you're in ad-hoc mode, are both computers getting internet service?

You have several interesting situations here.

First, you're using your router as a wireless bridge to your internet feed. What channel is the internet feed on? Is the WAP maybe getting interference from the internet feed (channel 6 could be subject to interference from a number of channels)? How about the make and model of the "local wireless internet provider antenna" connected to the BEFSR11?

Secondly, you do have horizontal (brick wall) and vertical (1 floor) signal radiation patterns to consider.

Thirdly, assuming that you solve your wireless problems, you have a Windows 98 and a Windows XP computer on the same LAN. Check for a browser conflict between the WinXP computer and the Win98 computer. I'm not talking about Internet Explorer here. The browser is the program that allows any computer to see any other computer on the LAN. The browsers for WinXP (WinNT/2K/XP) and Win98 (Win95/98/ME) don't work well together on the same LAN.

Make sure the browser service is running on the WinXP computer. Control Panel – Administrative Tools – Services. Verify that the Computer Browser, and the TCP/IP NetBIOS Helper, services both show with Status = Started. Disable the browser on the Win98 computer:

[http://cms.simons-rock.edu/faq\\_by\\_subtopic/node138.html](http://cms.simons-rock.edu/faq_by_subtopic/node138.html)

<http://www.compuidentsystems.com/documentation/win98.html>

After checking / disabling / enabling as above, power both computers off to reset the browser settings on each. Once both computers have been powered off, power them back on.

The Microsoft Browstat program will show us what browsers (I'm not talking about Internet Explorer here) you have in your domain / workgroup, at any time.

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<http://support.microsoft.com/?id=188305>

You can download Browstat from either:

<<http://www.dynawell.com/reskit/microsoft/win2000/browstat.zip>>

<<http://rescomp.stanford.edu/staff/manual/rcc/tools/browstat.zip>>

Browstat is very small (40K), and needs no install. Just unzip the downloaded file, copy browstat.exe to any folder in the Path, and run it from a command window, by "browstat status", on the XP computer.

For more information about the browser subsystem (very intricate), see:

<http://support.microsoft.com/?id=188001>

<http://support.microsoft.com/?id=188305>

<http://support.microsoft.com/?id=231312>

<<http://www.microsoft.com/technet/prodtechnol/winntas/deploy/prodspecs/ntbrowse.msp>>

<<http://www.microsoft.com/technet/archive/win95/w95brows.msp>>

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Cheers,

Chuck

Paranoia comes from experience – and is not necessarily a bad thing.

My email is AT DOT

actual address pchuck sonic net.

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• **Follow-Ups:**

- ◆ **Re: Wireless: an Infrastruture and an Ad-Hoc network how to assign IP addresses?**

◇ From: Jack

• **References:**

- ◆ **Wireless: an Infrastruture and an Ad-Hoc network how to assign IP addresses?**

◇ From: J

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