

# Re: Router install problem

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*Source:*

[http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.network\\_web/2007-04/msg00092.html](http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.network_web/2007-04/msg00092.html)

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- *From:* "PaulFXH" <[paulfxhackett@xxxxxxxx](mailto:paulfxhackett@xxxxxxxx)>
  - *Date:* 3 Apr 2007 05:55:15 -0700
- 

On Apr 3, 9:28 am, "PaulFXH" <[paulfxhack...@xxxxxxxx](mailto:paulfxhack...@xxxxxxxx)> wrote:

Lem wrote:

PaulFXH wrote:

Lem wrote:

Lem wrote:

PaulFXH wrote:

On Apr 2,  
5:53 am,  
"Scott"  
<[fcct...@xxxxxxxx](mailto:fcct...@xxxxxxxx)>  
wrote:

"Scott"  
<[fcct...@xxxxxxxx](mailto:fcct...@xxxxxxxx)>  
wrote  
in  
message

[news:uUd4GDQdHHA.4984@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:uUd4GDQdHHA.4984@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

"PaulFXH"  
<[paulfxhack...@xxxxxxxx](mailto:paulfxhack...@xxxxxxxx)>  
wrote  
in  
message  
[news:1175382419.269195.77660@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:1175382419.269195.77660@xxxxxxxxxxxxxxxxxxxxxxxx)

Hi

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everybody  
I  
working  
right  
now  
in  
Brazil  
and  
have  
a  
550  
kbps  
broadband  
connection.  
The  
internet  
reaches  
the  
computer  
through  
a  
modem  
at  
present.  
However,  
having  
recently  
acquired  
a  
second  
computer  
we  
have  
tried  
to  
install  
a  
wireless  
router  
(D-Link  
DI-524  
802.11g/2.4GHz)  
between  
the  
modem  
and  
the  
computer.  
Although  
I  
have

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followed  
the  
instructions  
to  
the  
letter,  
when  
I  
get  
to  
do  
the  
final  
test,  
I  
get  
an  
error  
message  
saying  
the  
router  
is  
not  
detected.  
After  
telling  
me  
to  
check  
the  
connection  
between  
the  
router  
and  
the  
computer  
(which  
is  
not  
the  
problem),  
the  
install  
goes  
no  
further  
than  
this.  
Note

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that  
in  
my  
desperation,  
I  
have  
actually  
physically  
changed  
the  
modem  
and  
the  
router  
and  
the  
various  
network  
cables  
for  
new  
versions  
without  
at  
all  
improving  
the  
situation.  
I  
have  
spoken  
to  
the  
ISP  
down  
here  
but  
they  
showed  
little  
interest  
in  
helping  
me.  
Any  
clues  
as  
to  
how  
I  
can

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resolve  
this?  
Thanks  
Paul

I  
was  
reading  
the  
specs  
on  
your  
Speed  
Stream  
5200.  
Looks  
like  
a  
nice  
router/firewall.  
According  
to  
the  
user  
manual  
you  
need  
to  
use  
a  
cross-over  
cable  
when  
connecting  
the  
Speed  
Stream  
to  
a  
hub  
or  
a  
switch  
without  
an  
"Uplink"  
port.  
Hope  
this  
helps.  
Good

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luck.  
Scott

Also  
the  
manual  
says  
that  
the  
default  
IP  
for  
the  
Speed  
Stream  
is  
192.168.254.254  
although  
it  
may  
vary  
by  
ISP.  
I  
think  
the  
answers  
you  
seek  
are  
in  
the  
Speed  
Stream  
manual.  
Did  
you  
log  
on  
to  
the  
router  
and  
look  
at  
the  
settings?  
<http://speedstream>  
Good  
luck.  
Scott

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--  
How  
many  
computer  
programmers  
does  
it  
take  
to  
change  
a  
light  
bulb?  
None.  
That's  
a  
hardware  
issue.

Once again  
I'd like to  
say thanks  
to  
everybody  
for helping  
me to  
resolve this  
problem. I  
should also  
point out  
that  
although  
I've been  
using the  
internet for  
15 years  
now, about  
90% of the  
stuff being  
discussed in  
this thread  
is very new  
to me so  
forgive me  
if I seem to  
be a little  
befuddled.  
Here below  
I'm going to  
try to clarify  
some of the

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doubts/questions  
people had  
as well as  
providing  
details of  
the test that  
Lem  
suggested.  
As a further  
point of  
clarification,  
the desktop  
computer to  
which the  
internet  
(modem  
only) is  
directly  
connected  
has TWO  
network  
cards: the  
first (VIA  
Rhine II)  
receives the  
incoming  
signal from  
the modem.  
The  
second  
(Encore  
10/100Mbps)  
is a PCI  
card that  
permits the  
internet to  
reach the  
second  
computer  
(laptop)  
through a  
(very long)  
network  
cable. The  
first  
connection  
is known as  
"Local" and  
the second  
(between  
computers)

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is known as  
"Local 3".

So, I went  
through the  
computer  
power-off,  
router reset,  
router-to-  
computer  
setup  
exactly as  
Lem  
described.  
When I did  
this, three  
lights were  
lit on the  
router  
(Power,  
Status  
(blinking)  
and  
LAN#1).  
Then after  
typing  
"ipconfig/all"  
at the DOS  
prompt I  
got the  
following  
information:  
(note that  
because I'm  
in Brazil,  
this came  
up in the  
Portuguese  
language,  
So, I'm  
giving the  
English  
translation):

Configuration  
of Windows  
IP

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Name of  
Host Paul  
DNS  
Primary  
Suffix  
Type of  
Node  
Unknown  
Routing of  
IP activated  
Yes  
WINS  
Proxy  
activated  
No

Ethernet  
Connection  
Adapter  
Local 3  
Specific  
DNS suffix  
for  
Connection  
Encore  
10/100Mbps  
Fast  
Ethernet  
PCI  
Adapter  
Physical  
address  
00-08-54-B0-3B-95  
DHCP  
activated  
No  
IP address  
192.168.0.1  
Subnet  
mask  
255.255.255.0  
Default  
Gateway

Ethernet  
Connection  
Adapter

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Local  
Specific  
DNS suffix  
for  
Connection  
VIA Rhine  
II Fast  
Ethernet  
Adapter  
Physical  
address  
00-07-95-C1-69-EE  
DHCP  
activated  
Yes  
IP address  
169.254.2.98  
Subnet  
mask  
255.255.0.0  
Default  
Gateway

For some  
reason, I did  
this whole  
test again  
starting  
from the  
powerdown  
to the router  
reset and so  
on. This  
time, the  
same three  
router lights  
were lit but  
additionally  
the WLAN  
light was  
flashing.  
Interestingly,  
when I did  
the  
ipconfig/all  
again,  
everything  
was the  
same except

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for some  
significant  
differences  
as shown in  
the section  
below:

Ethernet  
Connection  
Adapter  
Local  
Specific  
DNS suffix  
for  
Connection  
VIA Rhine  
II Fast  
Ethernet  
Adapter  
Physical  
address  
00-07-95-C1-69-EE  
DHCP  
activated  
Yes  
IP address  
192.168.0.100  
Subnet  
mask  
255.255.255.0  
Default  
Gateway  
DHCP  
Server  
192.168.0.1  
DNS  
Servers  
192.168.0.1  
Concession  
obtained  
Today  
Concession  
expires  
Next week

I hope this  
throws

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some light  
on matters  
for  
somebody  
as I still  
remain  
somewhat  
flumoxed.

Here are  
some  
further  
clarifications:  
a) With the  
router only  
connected  
to the  
computer  
and no  
internet  
connection I  
typed "arp  
-a"  
(without  
quotes) at a  
DOS  
prompt but  
the  
message I  
got was "No  
entry  
encountered"  
b) I am  
unclear as  
to whether  
this is a  
DSL or a  
Cable  
modem.  
However,  
it is a Speed  
Stream  
5200 which  
has four  
lights  
marked  
PWR, DSL,  
USB  
and ENET.

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It receives  
the  
broadband  
signal from  
a phone line  
which is  
why I  
thought it  
was a DSL  
modem. But  
as I've said  
I'm very  
much a  
nooby here  
c) The  
modem was  
supplied by  
the ISP  
(Velox here  
in Brazil)  
and no  
manual was  
provided. I  
have not yet  
looked for  
an online  
version of  
the manual  
d) When I  
said that I  
got an error  
message  
during the  
attempted  
installation  
of the  
router, the  
error  
message  
(No Router  
Detected)  
was  
provided by  
the D-Link  
installation  
CD (not  
from  
Windows)  
e) When I  
said that  
"somebody

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else  
mentioned  
that the  
modem  
might have  
an internal  
NAT setup"  
this came  
from  
another  
thread I  
posted in  
another  
group. But  
this thread  
didn't go  
any further  
than that

Are we  
seeing any  
light at the  
end of the  
tunnel?  
Thanks  
Paul

The vital clue actually came  
from Scott's posting. This  
relates to the  
"internal NAT setup" in the  
modem that you mentioned.  
This is, in fact,  
part of the problem.

Your SpeedStream 5200  
actually is a combination  
DSL modem and router.  
You do not want to have  
two routers in your network.

You have two options:

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1. Configure the SpeedStream 5200 to operate in "Bridged" mode.

In this mode, the router portion is disabled and the SpeedStream 5200 acts as a DSL modem only. If you want to do this, you need to connect an Ethernet cable to the SpeedStream 5200 and enter either

<http://speedstreamorhttp://192.168.254.254> in

your browser to access the SpeedStream's configuration pages. For more details, consult the manual. If you don't have one, it's at

<http://www2.windstream.net/downloads/links/SpeedStream211.pdf>

2. Alternatively, and perhaps easier, you have to disable the router portion of the D-Link, and just use it as a wireless access point and Ethernet switch. In order to accomplish this, you have to do three things: (1) connect the cable from the SS5200 to the DI524 using a LAN jack on the DI524 -- NOT the Internet jack; (2) ensure that the DI524 has a LAN IP in the range expected by the SS524; and (3) turn off the DHCP server in the DI524.

Unfortunately, I have to leave for about 3 or 4 hours right now, so I

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can't give you details. You can look it up in the DI524 manual, and I'll check back later this afternoon.

Continuing ...

When you did things the second time, the computer connected successfully between "Local" and the DI-524. At this point, you should have been able to enter 192.168.0.1 in a browser and reach the login screen for the DI-524 configuration pages. This will be necessary for what follows.

The first piece of information you need is the IP range expected by the SpeedStream 5200. The definitive way to get this info would be to connect your computer directly to the SpeedStream (as it originally was), ensure that you actually have Internet connectivity (you might need a reboot), and do an `ipconfig /all` and look at the IP address assigned to "Local" by the SpeedStream. Alternatively, judging by the SpeedStream manual, it appears as if the SpeedStream DHCP server assigns IP addresses in the range 192.168.254.1 to 192.168.254.253. Let's assume that this is correct, and therefore we will assign the DI-524 an IP address of 192.168.254.200.

1. Connect to the DI-524 configuration screens by entering 192.168.0.1 in your browser. The first thing you should see is a login

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...

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I'm just going to give some further information on the details available in Network Connections for the Velox connection (remember that Velox is the name of the ISP down here):

Name of Hardware VIA Rhine II Fast Ethernet  
Adapter  
Type of Hardware isdn  
Type of Server PPP  
Transports TCP/IP  
Authentication PAP  
Compaction none  
Framing (?) of PPP multilink Turned off  
Server IP address 200.217.72.88  
Client IP address 201.58.126.100

In answer to Scott's question about wireless adaptors, I really haven't got to that stage yet. All I am trying to achieve right now is to get an internet connection to the Desktop computer through the SS5200 and DI-524. As the DI-524 is a wireless router and the laptop (HP Pavilion dv1000) has a built-in wireless card, I had assumed that if the DI-524 was operational, the laptop would be able to pick up the internet from the router wirelessly.