

Re: Forcing Duplex settings

Source:

http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.setup_deployment/2005-08/msg00425.htm

- *From:* Gerry Hickman <gerry666uk@xxxxxxxxxxxxx>
 - *Date:* Thu, 11 Aug 2005 21:42:41 +0100
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Hi Kenneth,

Post back if you get an answer! I'd still be interested to know a short description of the problem you are having.

Your solution is to "change the duplex settings", but how do you know there isn't an easier or better solution, and how do you know you've got to the bottom of the problem by this change?

Kenneth Fossen wrote:

Thanks, I will ask my adapter creator if they have any WMI extensions. :)

"Mats" wrote:

Hi

We have seen similar problems with some Intel nics, mostly motherboard integrated on PIII:s. The problem is that at least CISCO switches and these intel nics wan't agree on anything else than 10Mbit/half duplex. Forcing them to 100/Full in both ends will give a stable 100/Full connection

The problem is that there is no common property to set to adjust speed and duplex. These settings are implemented by each driver vendor as they see fit. There is a wmi value to read out the connection speed but that is read only. Intel has wmi extension for their cards wich make them adjustable by WMI.

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I have posted a request via our tam to the develteam to change the drivermodel so that nicspeed and duplex would become a standard interface for all nics.

In the meanwhile the best solution to this (at least as I know) is to edit the registry or make a program for it. Be aware that you will have to change different keys/values depending on the nic
"Kenneth Fossen" <KennethFossen@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:BD8D2437-34A3-44AC-9D8B-EF866533790D@xxxxxxxxxxxxxxxxxxxx

I'm not sure if we have tested it in an testlab environment.
The system is already running in production, and there is a lot of

resources

we need to get to do an testlab.

I'll take your tip and ask the WMI list, or at least read the FAQ :)

Thx for the help.

Kenneth
"Gerry Hickman" wrote:

Hi Kenneth,

The problems I had, were that I thought I was being clever matching the NIC to the switch (and it even recommends this in a manual I have), but when I tested it, everything to do with the network was messed up. I then put it back to "Auto" and everything started working again. I've never worked out the reason. I basically did it on each machine manual back then.

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In terms of "how" to force the settings, I don't know. It may be a case of hacking very specific registry keys for the NIC driver in question, or there may be a way to use NDIS API calls, or the NIC maker may have developers guide or WMI provider.

You may want to post about this on the WMI newsgroups if you don't get an answer here - although I don't think it can be done with WMI, the guys in that group know about this kind of thing.

About your specific problem, did you try taking five clean built machines off the network and creating a test network with just those five? This is the first thing I'd do. You haven't exactly defined the problem very well.

Kenneth Fossen wrote:

Hi,
What kind of problems have you been experiencing when you set th

NIC's to

100Full insted of Auto?

The problem I have
has a long story,
but the only thing
that did make

the

situation better
was when we set the
NIC to 100Full
insted of Auto,

the same

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on the switchport.

And then we have
tried almost
everything, well it
feels like you have

tride

everything. But we
switched nic's,
cabels, new
hardware for the

computer and

new switches.

Kenneth
"Gerry Hickman" wrote:

Hi,

Are you
sure you
know
what
you're
doing,
I've
seen
serious
problems

when

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it's forced, even though it was matched to the switch.

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Gerry Hickman (London UK)

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Gerry Hickman (London UK)

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