

## Re: 2003 – multiple nics multiple subnets

**Source:**

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.networking/2004-03/1234.html>

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**From:** Brian Graham (brian.graham2\_at\_ntlworld.com)

**Date:** 03/26/04

Date: Fri, 26 Mar 2004 20:07:25 -0000

Thanks, that both makes sense and solves my problem.

Brian

"Phillip Windell" <@.> wrote in message

news:eLh8K1qEEHA.696@TK2MSFTNGP12.phx.gbl...

> *There should only be one Default Gateway. You should not have a Default  
> Gateway on more than one NIC. Default Gateways are "global" in nature and  
by*

> *definition there can be only one. It should be placed on the one NIC that  
> has either a direct route out of the private system or the route to some  
> other router that does have a direct route out of the system.*

>  
> *Default Gateways are only for "unspecified routes",.... that is routes to  
> places you don't own and don't have defined in a Routing Table,...such as  
> the Internet. All other destinations are "specified routes" and use*

**Routing**

> *Table entries and don't use Default Gateways.*

>  
> *If this represents a "hub & spoke" design with this machine being the  
> "hub"... , and your description indicates this is true, ...then there  
simply*

> *are no other gateways because every subnet is a  
"directly-connected-network"  
> and so the route to it is already established. But, if there are other  
> routers scattered through out the network then either you must create  
static*

> *routes for them in the OS's routing table or enable and use "Routing  
> Protocols" such as RIP and allow it time to automatically build its Route  
> Table.*

>  
> *You should use RRAS (Routing and Remote Access) as the "service" and the  
> "interface" to make the routing "happen".*

>  
> --

>  
> *Phillip Windell [MCP, MVP, CCNA]*

> [www.wandtv.com](http://www.wandtv.com)  
>  
>  
> "Brian Graham" <[brian.graham2@ntlworld.com](mailto:brian.graham2@ntlworld.com)> wrote in message  
> [news:eCz4u6oEEHA.3040@TK2MSFTNGP12.phx.gbl...](mailto:news:eCz4u6oEEHA.3040@TK2MSFTNGP12.phx.gbl...)  
>> *We have currently a windows 2000 advanced server with 4 NICs each having  
> an  
>> ip address on 4 different subnets, and each configured with the gateway  
> for  
>> its own subnet, this has been a convenient arrangement in this  
environment  
> as  
>> there are only 4 subnets and this made RIS and DHCP work far better.*  
There  
>> *is only the one server in this ADS domain.*  
>>  
>> *I have come to install Windows 2003 enterprise edition onto a spare  
Compaq  
>> ML370 with an onboard network card and I have installed 3 additional  
3com  
>> cards to make 4 in total, ie to duplicate the current structure.*  
However,  
>  
>> *2003 seems to take offence to me trying this. And sure enough does not  
>> function correctly.*  
>>  
>> *I have looked and cant find any document or advice as to how to  
configure  
>> multiple network cards in a windows server environment, only that  
> relating  
>> to fault tolerance situations.*  
>>  
>> *Any ideas folks?*  
>>  
>> *Thanks*  
>>  
>> *Brian*  
>>  
>>  
>>  
>  
>