

Re: Adding new subnets

Source:

<http://www.tech-archive.net/Archive/Win2000/microsoft.public.win2000.networking/2005-08/msg00151.html>

- *From:* "rstutte" <rstutte@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Mon, 8 Aug 2005 13:14:04 -0700
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Thanks for your reply! We already have routers for the point to point connection so just keeping the mask at 255 across the board, should the routers be configured correctly, connect the 10.1.1.0 and 10.1.4.0 networks. When we decide to add additional subnets to our main site i am assuming the routing can be taken care of via our switches that do layer 3 switching and VLANs. Is it wrong to assume this?

"Phillip Windell" wrote:

> "rstutte" <rstutte@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
> news:084D753D-F7BA-4BF4-B3C2-932720D96F2D@xxxxxxxxxxxxxxxxxxxx
>> We are going to be opening our first branch office and thus are going to
> set
> up a new subnet for that office. The two networks will connect via a
> point
>> to point T1 connection. Our current DHCP scope at the main office is
> setup
>> as 10.1.1.0 with a subnet mask of 255.255.255.0. In order for the two
>> networks to talk to each other I am going to change the subnet mask on our
>> current scope to 255.255.248.0.
>
> No. Keep it simple. Stay with a straight 24bit mask (255.255.255.0).
> Ethernet becomes less efficient above 250-300 hosts (your mileage may vary).
> The 24 bit mask provides 254 hosts which is perfect. Create new subnets by
> simply incrementing the third Octect by 1.
>
> 10.1.0.0 255.255.255.0
> 10.1.1.0 255.255.255.0
> 10.1.2.0 255.255.255.0
> 10.1.3.0 255.255.255.0
> 10.1.4.0 255.255.255.0
>
>> Am i doing this right? Do i only really
>> need to change the subnet mask on our current DHCP server in order for the
>> two networks to communicate?
>
> No it doesn't have anything to do with it. All that does is add more
> addresses to the same subnet. So you still have one subnet that is just

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- > bigger and less effiecient.
- >
- > You can not have subnets without a LAN Router to route between them. If you
- > can't afford the router,..then you can afford the subnets. But if the bank
- > can afford to build a new branch,..they can afford a LAN Router,..don't
- > let them tell you they can't. You can't build a network with duct tape and
- > baling wire,..you have to buy the right equipment for the job.
- >
- > --
- > Phillip Windell [MCP, MVP, CCNA]
- > www.wandtv.com
- > -----
- > Understanding the ISA 2004 Access Rule Processing
- > http://www.isaserver.org/articles/ISA2004_AccessRules.html
- >
- > Microsoft Internet Security & Acceleration Server: Guidance
- > <http://www.microsoft.com/isaserver/techinfo/Guidance/2004.asp>
- > <http://www.microsoft.com/isaserver/techinfo/Guidance/2000.asp>
- >
- > Microsoft Internet Security & Acceleration Server: Partners
- > <http://www.microsoft.com/isaserver/partners/default.asp>
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• **References:**

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◇ From: rstutte

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