

# Re: Strange DHCP Problems

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- *From:* "Dmitry Korolyov [MVP]" <d\_k@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
  - *Date:* Thu, 15 Sep 2005 21:55:07 +0400
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Is there any chance that your network equipment ("smart" switches and so on) "patches" the DHCP packets with different subnet mask? You know, 10.x.x.x is typically used with /8 instead of /24. So I wouldn't drop that chance. Try establishing some sort of relationship between your network topology and clients which get incorrect subnet mask; maybe it's the hardware that causes problem.

Also, try plugging 2-3 of the clients which get incorrect mask into a simple old-styled hub and connect it to the DHCP server directly, and see if they will still get the incorrect mask.

You can also use sniffer on different network segments between DHCP server and your clients to see if its DHCP server itself issuing packets with incorrect subnet mask, or this change happens somewhere while the packet is on its way from the server to the client.

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Dmitry Korolyov [d\_k@xxxxxxxxxxxxxxxxxxxxxxxxxxxx]  
MVP: Windows Server - Directory Services

"J3r3myS" <J3r3myS@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message [news:9A6BD21C-5C3D-41D9-9DDB-F3F48316B960@xxxxxxxxxxxxxxxxxxxx](mailto:news:9A6BD21C-5C3D-41D9-9DDB-F3F48316B960@xxxxxxxxxxxxxxxxxxxx)  
>I have win2k3 domain controller with DHCP Service. About 100 clients,  
>mostly  
> winxpPro, a few win2k. No problems for over a year. Using one scope,  
> 10.10.10.1 - 10.10.10.254. The subnetmask is 255.255.255.0 I have some  
> exclusions and reservations.  
>  
> The scope options are:  
> Router  
> Time Server  
> DNS Servers  
> NDS Domain Name  
> Wins Servers  
> WIns Node Type - H node  
>  
> 2 months ago random clients began to get the wrong subnetmask. They had

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> 255.0.0.0 as the subnetmask. Ipconfig /all showed everything correct  
> including the dhcp server except for the subnetmask. If I release and  
> renew  
> the ip, I get the correct subnetmask. Now almost all of the clients have  
> the  
> incorrect subnetmask.  
>  
> I have removed the dhcp server and verified that clients were not  
> receiving  
> ip info from another DHCP server. I have moved the DHCP service to another  
> server. I have moved the DHCP service back to the PDC and re-entered all  
> dhcp  
> config manually. I also upgraded the firmware in all switches.  
>  
> I have run out of ideas. Any suggestions?  
>  
> Thanks.  
>  
>

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