

# Re: Clients not registering in AD integrated DNS

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<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.dns/2007-06/msg00181.html>

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- *From:* JohnS <NNTPAlias@xxxxxxxxxxxxxx>
  - *Date:* Wed, 13 Jun 2007 13:16:02 -0700
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Let's try this again...

See my comments embedded below.

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John S

It's an OS, not a religion.

"Herb Martin" wrote:

"JohnS" <NNTPAlias@xxxxxxxxxxxxxx> wrote in message  
<news:7D3DFE24-04D8-4F19-8C57-06E86EE58F66@xxxxxxxxxxxxxx>

I have an issue where new clients, upon joining the domain, are not registering in DNS. Further, they do not register in DNS at any point thereafter.

DNS Clients must use STRICTLY the set of (internal) DNS servers which can find the DNS servers for their own Domain AND ALL other domains internally and external.

The most common error is to mix DNS Servers (sets) on the DNS client NIC->IP properties -- i.e, putting DNS servers in there which cannot find everything the clients will ever need.

DNS Clients believe that EVERY DNS server will return the same and the correct answers.

The DNS servers known to the client are technically not mixed, they just aren't part of sub1.domB.com. The are both part of domA.com.

## Re: Clients not registering in AD integrated DNS

My environment consists of 2 separate AD forests/domains (domA.com and sub1.domB.com), each having their own AD integrated DNS (Dynamic updates = Secure only). The DNS servers for domA.com have a domain specific Forwarder record for sub1.domB.com.

There are also a number of other DNS zones hosted on BIND servers (e.g. domB.com, sub2.domB.com, sub3.domB.com, etc). The DNS zones associated with domB.com represent a company that acquired the company that originally owned domA.com.

I am trying to add clients to sub1.domB.com and I would like for them to register themselves in DNS in sub1.domB.com.

The DNS Server(s) these clients use must be either IN sub1.domB.com or able to FIND sub1.domB.com. No exceptions.

The DNS servers in use by the client can consistently resolve sub1.domB.com as well as all hostnames within sub1.domB.com.

Clients should also have their Primary DNS suffix set in the SYSTEM Control Panel.

I should have specifically included this info before. Upon joining sub1.domB.com, the Primary DNS suffix of this computer is successfully set. In addition, Change primary DNS suffix when domain membership changes = {checked}.

The clients are newly built XP SP2 with default TCP/IP properties:  
Obtain an IP address automatically  
Obtain DNS server address automatically  
Append primary and connection specific DNS suffixes  
Append parent suffixes of the primary DNS suffix = {unchecked}  
DNS suffix for this connection = {blank}  
Register this connection's addresses in DNS = {checked}  
Use this connection's DNS suffix in DNS registration = {unchecked}}

DHCP should also give out the correct DNS name for these clients if at all possible.

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I can't do this yet since the DHCP scope was not set up for and is not specific to the destination domain.

The clients start out as workgroup machines. They obtain their TCP/IP info via a DHCP server that is a member of domA.com. The DHCP client service is running on the client.

When they switch to domain machines the Primary DNS suffix needs to be added to them as part of this change.

Answered above.

On the DHCP server, the primary and secondary DNS servers are DNS servers in domA.com. Scope option 006 includes only DNS servers for domA.com. Scope option 015 is set to domA.com. The DHCP server is also set to register clients in DNS:  
Automatically update DHCP client information in DNS = {checked}  
Always update DNS  
Discard forward (name-to-address) lookups when lease expires = {checked}  
Enable updates for DNS clients that do not support dynamic update = {checked}

The clients successfully join the sub1.domB.com AD domain using the fqdn. However, they do not register in the sub1.domB.com DNS domain. Upon reboot, or upon using ipconfig /registerdns, they still do not register in the sub1.domB.com DNS domain.

Can anyone explain why the DNS registration does not work?

--  
John S

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