

# Re: Missing A records in cache

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*Source:*

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.dns/2008-02/msg00136.html>

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- *From:* "Kevin D. Goodknecht Sr. [MVP]" <[admin@xxxxxxxxxxxxxxxx](mailto:admin@xxxxxxxxxxxxxxxx)>
  - *Date:* Tue, 12 Feb 2008 21:29:20 -0600
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Read inline please.

In [news:BF2473E1-A90E-42BF-83D8-1B8A29F9EC78@xxxxxxxxxxxxxxxx](mailto:news:BF2473E1-A90E-42BF-83D8-1B8A29F9EC78@xxxxxxxxxxxxxxxx),  
Chris Ramsay <[ChrisRamsay@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:ChrisRamsay@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)> typed:

Hello,

I am having a strange problem with resolving names to one specific internet domain. On occasion my DNS servers will lose the ability to resolve the t-systems.at domain. Clearing the cache re-enables the servers ability to resolve the t-systems.at domain. When I click on advanced view and look at the cache I see that the t-systems folder contains the following:

(same as parent folder) – Name Server (NS) – ns1.t-systems.at.  
ns1 – Host(A) –  
212.31.86.100

On the occasions when I cannot resolve the domain I have noticed that the cache record for t-systems.at is missing the A record. It only contains the NS record for ns1.t-systems.at.

My best guess is that without this A record, the ns1.t-systems.at name server is unresolvable and clearing the cache forces my dns server to issue a query out to get the t-systems.at information. Thus name lookups fail until the cache is cleared and the t-systems folder is repopulated.

Can anyone shed some light on why the cache might be missing this information. It prevents us from sending email to this domain.

The NS record has a Ttl of 86400 seconds (1 day), while the A record has a Ttl of only 300 seconds. Even after the Ttl expires on the A record, DNS will use recursion to resolve the A record, because it knows the name to look for and start the 300 second countdown again.

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Best regards,  
Kevin D. Goodknecht Sr. [MVP]  
Hope This Helps

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When responding to posts, please "Reply to Group"  
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Use Outlook Express?... Get OE\_Quotefix:  
It will strip signature out and more  
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Keep a back up of your OE settings and folders  
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