

Re: Event ID 1003 -> DHCP problem

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2006-05/msg02927.html>

- *From:* "Don Tagliatelli" <vincent_huybrechts@xxxxxxxxxxxxxxxx>
 - *Date:* Wed, 17 May 2006 07:52:46 GMT
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Thanks Chace!

I'll replace the nic this weekend.

I don't think it's switch related, because it's the external nic that's causing the problem.

Regards,
Vincent

"chace zhang" <v-chacez@xxxxxxxxxxxxxxxx> wrote in message
<news:IzZMUPWeGHA.3728@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>

Hi Vincent,

Thanks for posting here.

According to your description, I understand that the external NIC can't obtain the IP address from the external DHCP server. If I'm off base, please do let me know.

Generally, this is an expected behavior while DHCP Client failed to contact DHCP Server to renew the IP address. If this issue occurs, event id 1003 will be registered in the event log. This issue occurs typically in a switched network and it is related to the switch device, for example, if the Switch did not initialize the port speed, there will be some communication issue between the NIC and the Switch and this issue will occur...

The following article explained this issue in a switched network:
168455 DHCP Renewal Failures on Switched Networks
<http://support.microsoft.com/?id=168455>

Based on my experience, this issue may also relate to the faulty network

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adapter. Considering your scenario that the affected network adapter is connected to internet and receives IP address from ISP, I suspect that there are some problems about the adapter, for example, if the NIC failed to detect the link status, it failed to contact DHCP Server and this issue will occur.

We have seen some incidents while the following adapters are installed (not limited to these adapters):

- Broadcom Gigabit Adapter
- Intel Gigabit Ethernet PRO Adapter, Intel Pro/1000
- Intel 82544EI-based XT Gigabit Adapter (82540EM chipse)
- Compaq/HP NIC dual interface 10/100/1000 doing teaming (HP NC7170)
- Dell Inspiron laptops using an on-board Broadcom BCM4401 NIC

So, I suggest that you replace the external network adapter on the SBS Server to see how it goes. Temporarily, you can disable the Media Sense to see if we can eliminate this event message but I recommend that you replace the external network adapter.

To prevent your network adapter from detecting the link state:

1. Open Registry Editor (Regedt32.exe).
2. Go to the following key in the registry:
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\Tcpip\Parameters
3. Add the following registry value:
Value Name: DisableDHCPMediaSense
Data Type: REG_DWORD
Value Data: Range: 1

Description: This parameter controls DHCP Media Sense behavior. If you set this value data to 1, DHCP, and even non-DHCP, clients ignore Media Sense events from the interface. By default, Media Sense events trigger the DHCP client to take an action, such as attempting to obtain a lease (when a connect event occurs), or invalidating the interface and routes (when a disconnect event occurs).

4. Restart your computer and to see the result.

Hope it helps.

Have a nice day!

Best Regards,

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Chace Zhang (MSFT)

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<http://www.microsoft.com/communities/newsgroups/en-us/default.aspx>

When opening a new thread via the web interface, we recommend you check the "Notify me of replies" box to receive e-mail notifications when there are any updates in your thread. When responding to posts via your newsreader, please "Reply to Group" so that others may learn and benefit from your issue.

Microsoft engineers can only focus on one issue per thread. Although we provide other information for your reference, we recommend you post different incidents in different threads to keep the thread clean. In doing so, it will ensure your issues are resolved in a timely manner.

For urgent issues, you may want to contact Microsoft CSS directly. Please check <http://support.microsoft.com> for regional support phone numbers.

Any input or comments in this thread are highly appreciated.

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