1. Setup DHCP server.

2. In the advance function of DHCP server, setup Custom Option for routing entry, for example, if you need setup a routing: 192.168.4.0/24, GW=10.1.1.1, please setup:

Code: 121 Type: UNIT8LIST Parameter: 24,192,168,4,10,1,1,1
Code: 249 Type: UNIT8LIST Parameter: 24,192,168,4,10,1,1,1

Code: 121 for Windows2000/XP/2003
Code: 249 for Windows Vista/2008

3. Windows Vista has a bug about DHCP routing, please follow Windows HotFix procedure to fix this problem, windows HowFix information:

http://support.microsoft.com/?id=933340

http://social.technet.microsoft.com/Forums/en-US/itprovistanetworking/thread/bfe43ccb-ec6e-4540-ab17-f76b20b715b8/

As you can see, microsoft is recognized this bug, along with release the hot fix. Following is a list of all possible solutions:

1. Upgrade Vista SP2.

2. Follow this HotFix, http://support.microsoft.com/?id=933340 .

3. Install QFE.
Install the latest QFE (revision 2.0) http://support.microsoft.com/kb/933340/
After installing the QFE Please check the file version of dhcpcsvc.dll. It should be 6.0.6000.20567 as mention in kb article
And Create 0(dword) register value under
"HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Dhcp\Parameters\DhcpGlobalForce BroadcastFlag\0" and set it to Zero or run following cmd from elevated prompt

"reg add
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Dhcp\Parameters\DhcpGlobalForceB roadcastFlag\0 /f /v 0 /t REG_DWORD /d 0"

Stop and start dhcp service (Net Stop dhcp & net start dhcp) and try to repro the scenario after that.