

Re: Regarding dhcp client problem

Source: <http://coding.derkeiler.com/Archive/General/comp.arch.embedded/2005-10/msg00049.html>

- *From:* "jaek kay" <jaek kay@xxxxxxxxx>
 - *Date:* 4 Oct 2005 03:14:04 -0700
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I have captured the packet information from the device. For the discover request from the device, win2k dhcp server sends (broadcasts) offer. But the dhcp client in the device is not receiving the offer at all

Here is the packet information from ethereal (Sorry for such large amount of text)

DISCOVER Request from device:

No. Time Source Destination
Protocol Info
22 73.141000 0.0.0.0 255.255.255.255 DHCP
DHCP Discover – Transaction ID 0x22334455

Frame 22 (342 bytes on wire, 342 bytes captured)
Arrival Time: Oct 4, 2005 12:30:58.165016000
Time delta from previous packet: 1.193086000 seconds
Time since reference or first frame: 73.141000000 seconds
Frame Number: 22
Packet Length: 342 bytes
Capture Length: 342 bytes
Protocols in frame: eth:ip:udp:bootp
Ethernet II, Src: 10.0.0.4 (00:b0:00:12:12:28), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Source: 10.0.0.4 (00:b0:00:12:12:28)
Type: IP (0x0800)
Internet Protocol, Src: 0.0.0.0 (0.0.0.0), Dst: 255.255.255.255 (255.255.255.255)
Version: 4
Header length: 20 bytes
Differentiated Services Field: 0x00 (DSCP 0x00: Default; ECN: 0x00)
0000 00.. = Differentiated Services Codepoint: Default (0x00)
.... ..0. = ECN-Capable Transport (ECT): 0
.... ...0 = ECN-CE: 0
Total Length: 328
Identification: 0xaa98 (43672)
Flags: 0x00

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0... = Reserved bit: Not set
.0.. = Don't fragment: Not set
..0. = More fragments: Not set
Fragment offset: 0
Time to live: 120
Protocol: UDP (0x11)
Header checksum: 0x970d [correct]
Source: 0.0.0.0 (0.0.0.0)
Destination: 255.255.255.255 (255.255.255.255)
User Datagram Protocol, Src Port: bootpc (68), Dst Port: bootps (67)
Source port: bootpc (68)
Destination port: bootps (67)
Length: 308
Checksum: 0xf434 [correct]
Bootstrap Protocol
Message type: Boot Request (1)
Hardware type: Ethernet
Hardware address length: 6
Hops: 0
Transaction ID: 0x22334455
Seconds elapsed: 0
Bootp flags: 0x8000 (Broadcast)
1... = Broadcast flag: Broadcast
.000 0000 0000 0000 = Reserved flags: 0x0000
Client IP address: 0.0.0.0 (0.0.0.0)
Your (client) IP address: 0.0.0.0 (0.0.0.0)
Next server IP address: 0.0.0.0 (0.0.0.0)
Relay agent IP address: 0.0.0.0 (0.0.0.0)
Client MAC address: 10.0.0.4 (00:b0:00:12:12:28)
Server host name not given
Boot file name not given
Magic cookie: (OK)
Option 53: DHCP Message Type = DHCP Discover
Option 51: IP Address Lease Time = infinity
Option 55: Parameter Request List
1 = Subnet Mask
3 = Router
6 = Domain Name Server
15 = Domain Name
End Option
Padding

OFFER Response from win2k dhcp Server:

No. Time Source Destination
Protocol Info
23 73.141206 10.10.1.1 255.255.255.255 DHCP
DHCP Offer – Transaction ID 0x22334455

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Frame 23 (346 bytes on wire, 346 bytes captured)
Arrival Time: Oct 4, 2005 12:30:58.165222000
Time delta from previous packet: 0.000206000 seconds
Time since reference or first frame: 73.141206000 seconds
Frame Number: 23
Packet Length: 346 bytes
Capture Length: 346 bytes
Protocols in frame: eth:ip:udp:bootp
Ethernet II, Src: 10.10.1.1 (00:11:25:96:f1:91), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Source: 10.10.1.1 (00:11:25:96:f1:91)
Type: IP (0x0800)
Internet Protocol, Src: 10.10.1.1 (10.10.1.1), Dst: 255.255.255.255 (255.255.255.255)
Version: 4
Header length: 20 bytes
Differentiated Services Field: 0x00 (DSCP 0x00: Default; ECN: 0x00)
0000 00.. = Differentiated Services Codepoint: Default (0x00)
.... ..0. = ECN-Capable Transport (ECT): 0
.... ...0 = ECN-CE: 0
Total Length: 332
Identification: 0x19e0 (6624)
Flags: 0x00
0... = Reserved bit: Not set
.0.. = Don't fragment: Not set
..0. = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: UDP (0x11)
Header checksum: 0x14b7 [correct]
Source: 10.10.1.1 (10.10.1.1)
Destination: 255.255.255.255 (255.255.255.255)
User Datagram Protocol, Src Port: bootps (67), Dst Port: bootpc (68)
Source port: bootps (67)
Destination port: bootpc (68)
Length: 312
Checksum: 0xf95d [correct]
Bootstrap Protocol
Message type: Boot Reply (2)
Hardware type: Ethernet
Hardware address length: 6
Hops: 0
Transaction ID: 0x22334455
Seconds elapsed: 0
Bootp flags: 0x0000 (Unicast)
0... = Broadcast flag: Unicast
.000 0000 0000 0000 = Reserved flags: 0x0000
Client IP address: 0.0.0.0 (0.0.0.0)
Your (client) IP address: 10.0.0.4 (10.0.0.4)
Next server IP address: 10.10.1.1 (10.10.1.1)

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Relay agent IP address: 0.0.0.0 (0.0.0.0)
Client MAC address: 10.0.0.4 (00:b0:00:12:12:28)
Server host name not given
Boot file name not given
Magic cookie: (OK)
Option 53: DHCP Message Type = DHCP Offer
Option 1: Subnet Mask = 255.0.0.0
Option 58: Renewal Time Value = 5 days, 1 hour, 30 minutes
Option 59: Rebinding Time Value = 8 days, 20 hours, 37 minutes, 30 seconds
Option 51: IP Address Lease Time = 10 days, 3 hours
Option 54: Server Identifier = 10.10.1.1
Option 6: Domain Name Server = 10.10.1.1
Option 15: Domain Name = "skimmerdev.skimmerdev"
End Option

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- *Follow-Ups:*
 - ◆ **Re: Regarding dhcp client problem**
 - ◇ From: Markus Zingg
 - Prev by Date: **Intel IXA Sdk 2.01a**
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