

# Re: UDP's sendto() from two IP Addresses to IP Address from small LAN

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*Source:*

<http://www.tech-archive.net/Archive/Development/microsoft.public.win32.programmer.networks/2006-01/msg00259>

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- *From:* "Alex Vinokur" <[alexvn@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:alexvn@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* 23 Jan 2006 22:35:01 -0800
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Eugene Gershnik wrote:

> Alex Vinokur wrote:

>>

>> I sent two messages to IP Address 10.1.1.1 via UDP socket (the  
>> sendto() command):

>> \* from 128.129.101.102

>> and

>> \* from 10.1.1.200.

>>

>> IP Address 10.1.1.1 received both messages.

>>

>> The question is: why did 10.1.1.1 receive message from 128.129.101.102

>> ?

>> It seems that 10.1.1.1 and 128.129.101.102 are in different LANs.

>

>

> Because the route the packet takes is decided based on routing table and not  
> on where it is coming from. This was discussed multiple times over here.

Can I get any references?

Thanks.

> With IPv4 UDP you cannot usually prevent this behavior.

>

[snip]

Here is the routing table:

```
$ netstat -r
```

```
=====
```

Active Routes:

Network	Destination	Netmask	Gateway	Interface
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Metric

0.0.0.0	0.0.0.0	128.129.0.1	128.129.101.102	
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10.1.1.0	255.255.255.0	10.1.1.200	10.1.1.200	
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```
10.1.1.200 255.255.255.255 127.0.0.1 127.0.0.1
20
10.255.255.255 255.255.255.255 10.1.1.200 10.1.1.200
20
127.0.0.0 255.0.0.0 127.0.0.1 127.0.0.1 1
128.129.0.0 255.255.0.0 128.129.101.102 128.129.101.102
20
128.129.101.102 255.255.255.255 127.0.0.1 127.0.0.1
20
128.129.255.255 255.255.255.255 128.129.101.102 128.129.101.102
20
224.0.0.0 240.0.0.0 10.1.1.200 10.1.1.200
20
224.0.0.0 240.0.0.0 128.129.101.102 128.129.101.102
20
255.255.255.255 255.255.255.255 10.1.1.200 10.1.1.200 1
255.255.255.255 255.255.255.255 128.129.101.102 128.129.101.102 1
Default Gateway: 128.129.0.1
```

=====  
Persistent Routes:  
None

How does 'a message from 128.129.101.102' go to 10.1.1.1 ?

Alex Vinokur  
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<http://mathforum.org/library/view/10978.html>  
<http://sourceforge.net/users/alexvn>

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• **Follow-Ups:**

- ◆ **Re: UDP's sendto() from two IP Addresses to IP Address from small LAN**  
◇ From: Eugene Gershnik
- ◆ **Re: UDP's sendto() from two IP Addresses to IP Address from small LAN**  
◇ From: Arkady Frenkel

• **References:**

- ◆ **UDP's sendto() from two IP Addresses to IP Address from small LAN**  
◇ From: Alex Vinokur
- ◆ **Re: UDP's sendto() from two IP Addresses to IP Address from small LAN**  
◇ From: Eugene Gershnik

- Prev by Date: **Re: Network Security**
- Next by Date: **Re: Can an app see the same UDP packet multiple times?**
- Previous by thread: **Re: UDP's sendto() from two IP Addresses to IP Address from small LAN**
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Re: UDP's sendto() from two IP Addresses to IP Address from small LAN

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