

Re: Socket does not receive UDP packet with source address 255.255.255.255

Source:

<http://www.tech-archive.net/Archive/Development/microsoft.public.win32.programmer.networks/2005-07/msg00320>

- *From:* "Alexander Nickolov" <agnickolov@xxxxxxxx>
 - *Date:* Fri, 22 Jul 2005 11:50:24 -0700
-

Most likely the packet is dropped as invalid/corrupt at the UDP layer.

--

=====
Alexander Nickolov
Microsoft MVP [VC], MCSD
email: agnickolov@xxxxxxxx
MVP VC FAQ: <http://www.mvps.org/vcfaq>
=====

"Ricardo Vazquez" <Ricardo.Vazquez@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:BF9D4BCD-D555-4554-90BF-A04C283CA77F@xxxxxxxxxxxxxxxxxxxx

- > My problem is that I want the socket (I've tried both with the MFC
- > CAsyncSocket and with the SOCKET of the API) in my application to receive
- > an
- > UDP packet whose source address is 255.255.255.255.
- > A sniffer application (Ethereal) shows that packet arrives to my machine
- > but
- > it does not trigger the CAsyncSocket::OnReceive event function on my
- > program (MFC version), nor the recvfrom function (sockets API version).
- > Somehow the system is not passing that packet to the application level,
- > although it arrives to the correct port; apparently because of its
- > extrange
- > source address.
- >
- > It does not receive either if the source address of the packet was
- > 192.168.0.255 (subnet mask 255.255.255.0)
- >
- > If the source address is any other (for example, 192.168.0.80) I receive
- > the
- > packet.
- >
- > Does anyone know what is happening? Any explanations?
- > Is there any way to set the operating system or to set my socket so that
- > it
- > receives the packet?

Re: Socket does not receive UDP packet with source address 255.255.255.255

```
>
> Thank you in advanced,
>
> Ricardo Vázquez.
> Madrid, Spain.
>
>
> Sockets API code below, just in case someone needs it to answer my
> question:
> -----
> int nRet;
> CString msg, err;
>
> // Create an UDP socket, set to send broadcast
> //
> if (!AfxSocketInit())
> {
> AfxMessageBox("Windows Sockets initialization failed.");
> return;
> }
>
> m_listenSocket = socket(AF_INET, SOCK_DGRAM, 0);
> if (m_listenSocket == INVALID_SOCKET)
> {
> err.Format("Could not create listen socket: %ld", WSAGetLastError());
> AfxMessageBox(msg);
> return;
> }
>
> int nVal = 1;
> nRet = setsockopt (m_listenSocket, SOL_SOCKET, SO_BROADCAST, (char*)&nVal,
> sizeof(nVal));
> if (nRet == SOCKET_ERROR)
> {
> err.Format("setsockopt(SO_BROADCAST) error: %ld", WSAGetLastError());
> AfxMessageBox(err);
> }
>
> // Bind our name to the socket
> //
> SOCKADDR_IN saServer;
> saServer.sin_addr.s_addr = INADDR_ANY;
> saServer.sin_port = htons(23000);
> saServer.sin_family = AF_INET;
>
> nRet = bind(m_listenSocket, (sockaddr*)&saServer, sizeof(saServer));
> if (nRet == SOCKET_ERROR)
> {
> err.Format("bind() error: %ld", WSAGetLastError());
> AfxMessageBox(msg);
> closesocket(m_listenSocket);
```

Re: Socket does not receive UDP packet with source address 255.255.255.255

Re: Socket does not receive UDP packet with source address 255.255.255.255

```
> return;
> }
>
> // Broadcast message
> //
> msg = "$(FF FF FF FF FF FF) MAC";
>
> SOCKADDR_IN saServer2;
> char szAdd [] = "192.168.0.255";
> saServer2.sin_addr.s_addr = inet_addr(szAdd);
> saServer2.sin_port = htons(23081);
> saServer2.sin_family = AF_INET;
>
> if (sendto (m_listenSocket, msg, msg.GetLength(), 0,
> (LPSOCKADDR)&saServer2,
> sizeof(struct sockaddr) != msg.GetLength())
> {
> err.Format("sendto() error: %ld", WSAGetLastError());
> AfxMessageBox(msg);
> return;
> }
>
> // Receive (on port 23000)
> //
> char szBuffer [2048];
> int nBytesRead;
> struct sockaddr_in from;
> int fromlen = sizeof(from);
>
> nBytesRead = recvfrom(m_listenSocket, szBuffer, sizeof(szBuffer), 0,
> (struct
> sockaddr*)&from, &fromlen); // <--- program stops here forever: it never
> receives
>
> if (nBytesRead == SOCKET_ERROR)
> {
> err.Format("recvfrom() error: %ld", WSAGetLastError());
> AfxMessageBox(msg);
> return;
> }
>
> szBuffer[nBytesRead] = 0;
> AfxMessageBox(szBuffer);
>
.
```

• *Follow-Ups:*

Re: Socket does not receive UDP packet with source address 255.255.255.255

Re: Socket does not receive UDP packet with source address 255.255.255.255

◆ **Re: Socket does not receive UDP packet with source address 255.255.255.255**

◇ From: Alan J. McFarlane

◆ **Re: Socket does not receive UDP packet with source address 255.255.255.255**

◇ From: Arkady Frenkel

• **References:**

◆ **Socket does not receive UDP packet with source address 255.255.255**

◇ From: Ricardo Vazquez

• Prev by Date: **Re: Posting multiple acceptex and netstat**

• Next by Date: **Re: Handling Unknown Sockets in WSPSelect**

• Previous by thread: **Socket does not receive UDP packet with source address 255.255.255**

• Next by thread: **Re: Socket does not receive UDP packet with source address 255.255.255.255**

• Index(es):

◆ **Date**

◆ **Thread**