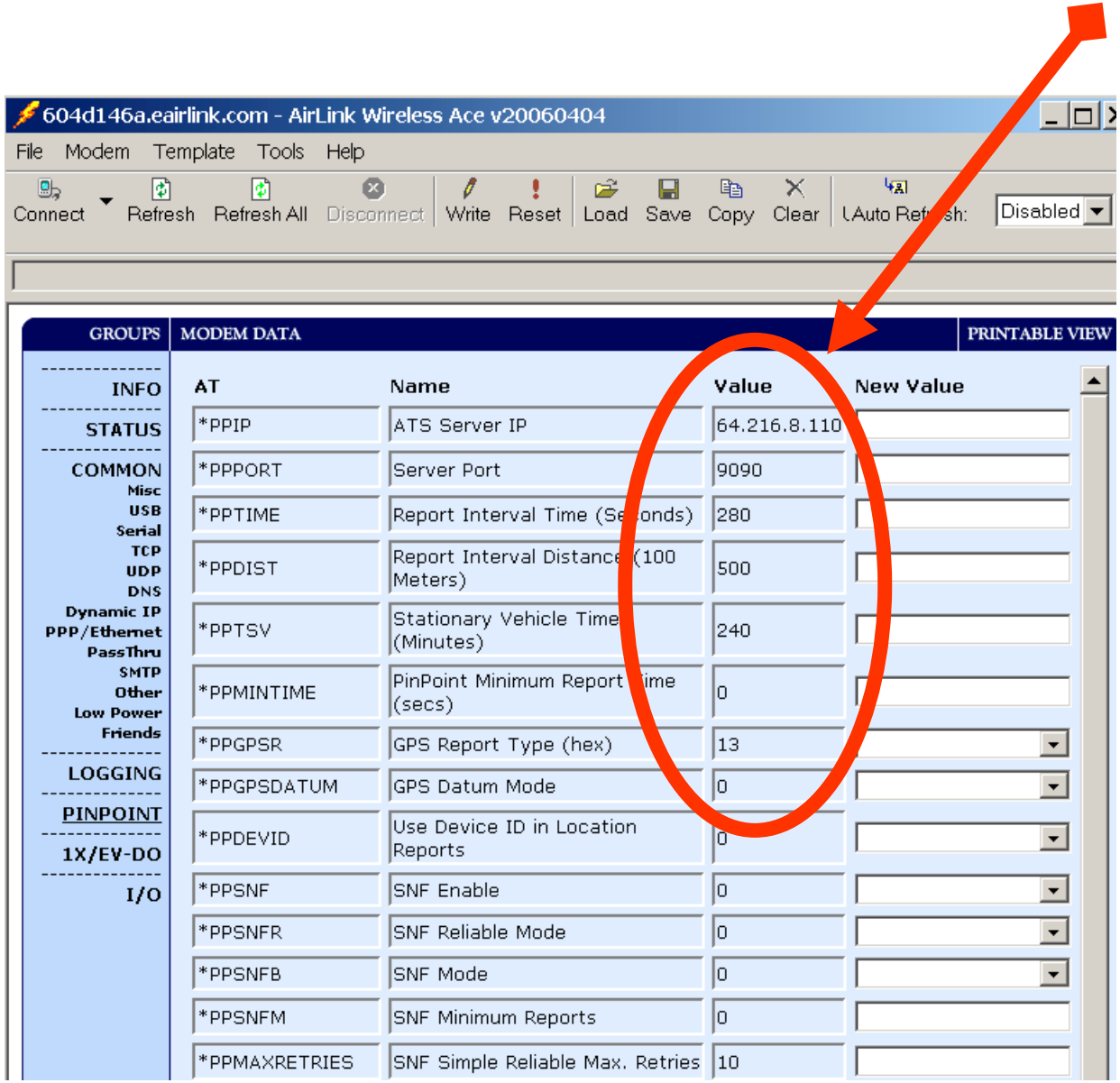
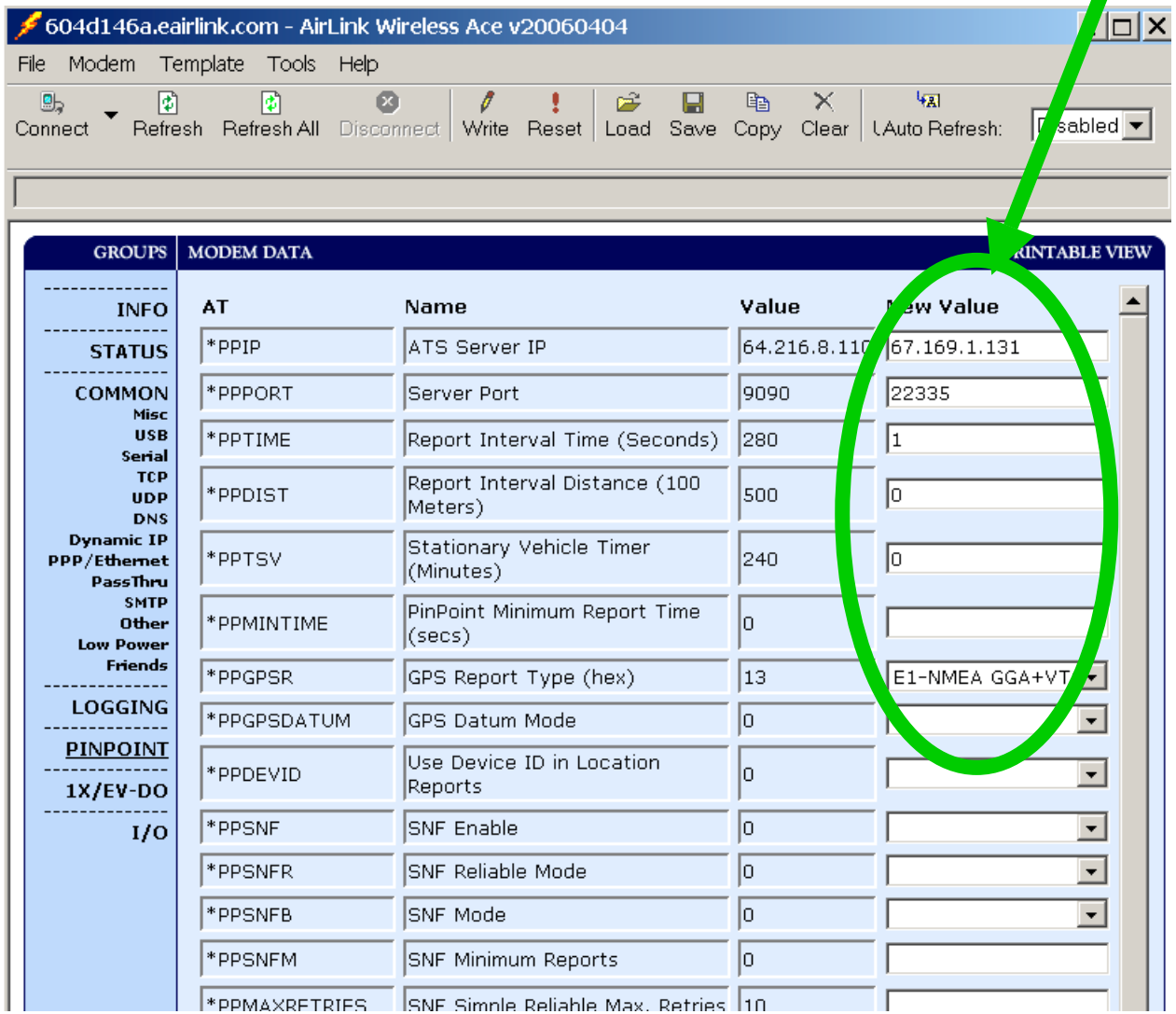
Use IP Config to determine the IP address of your computer

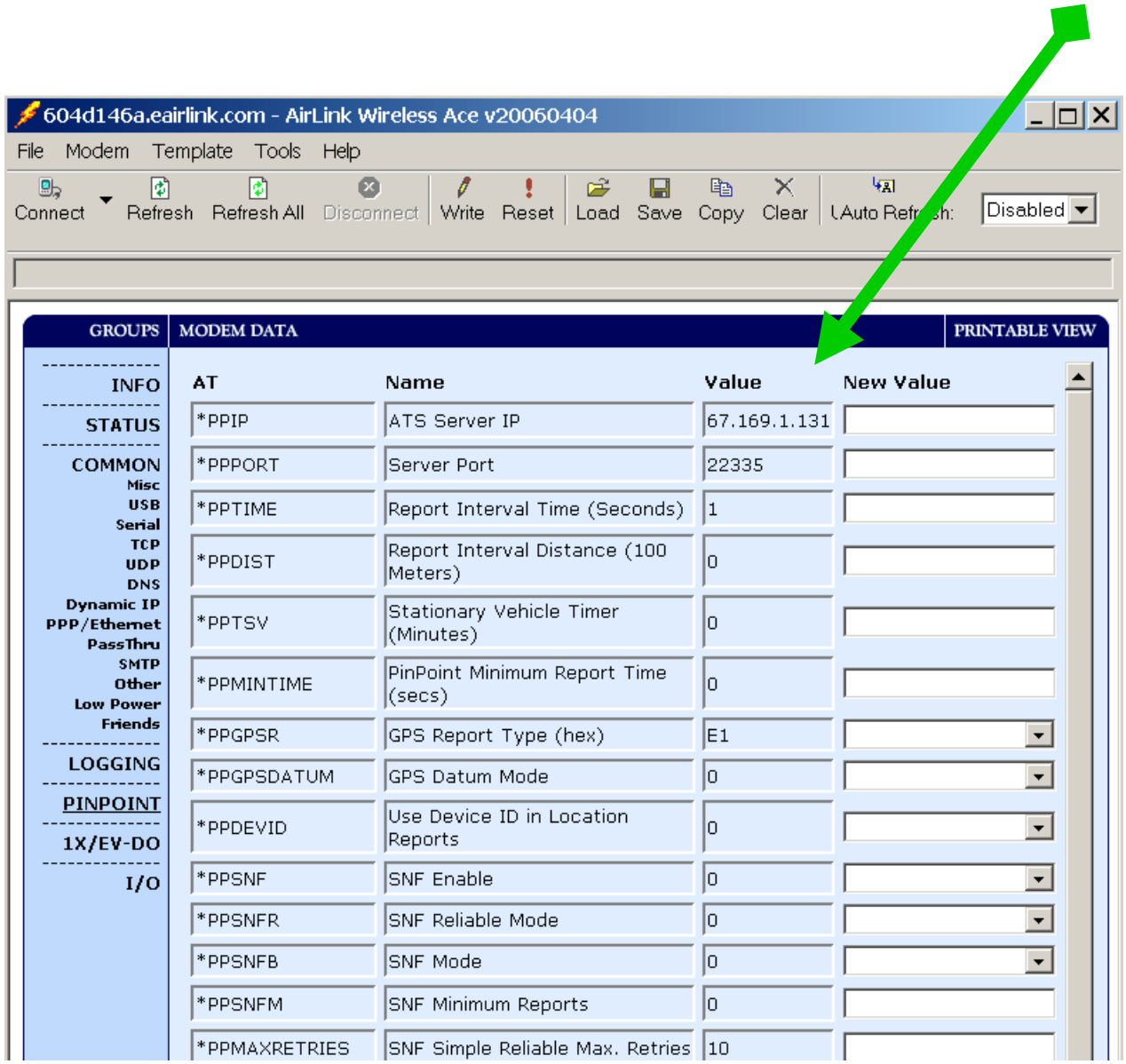
Start Wireless Ace. Note the circled items values



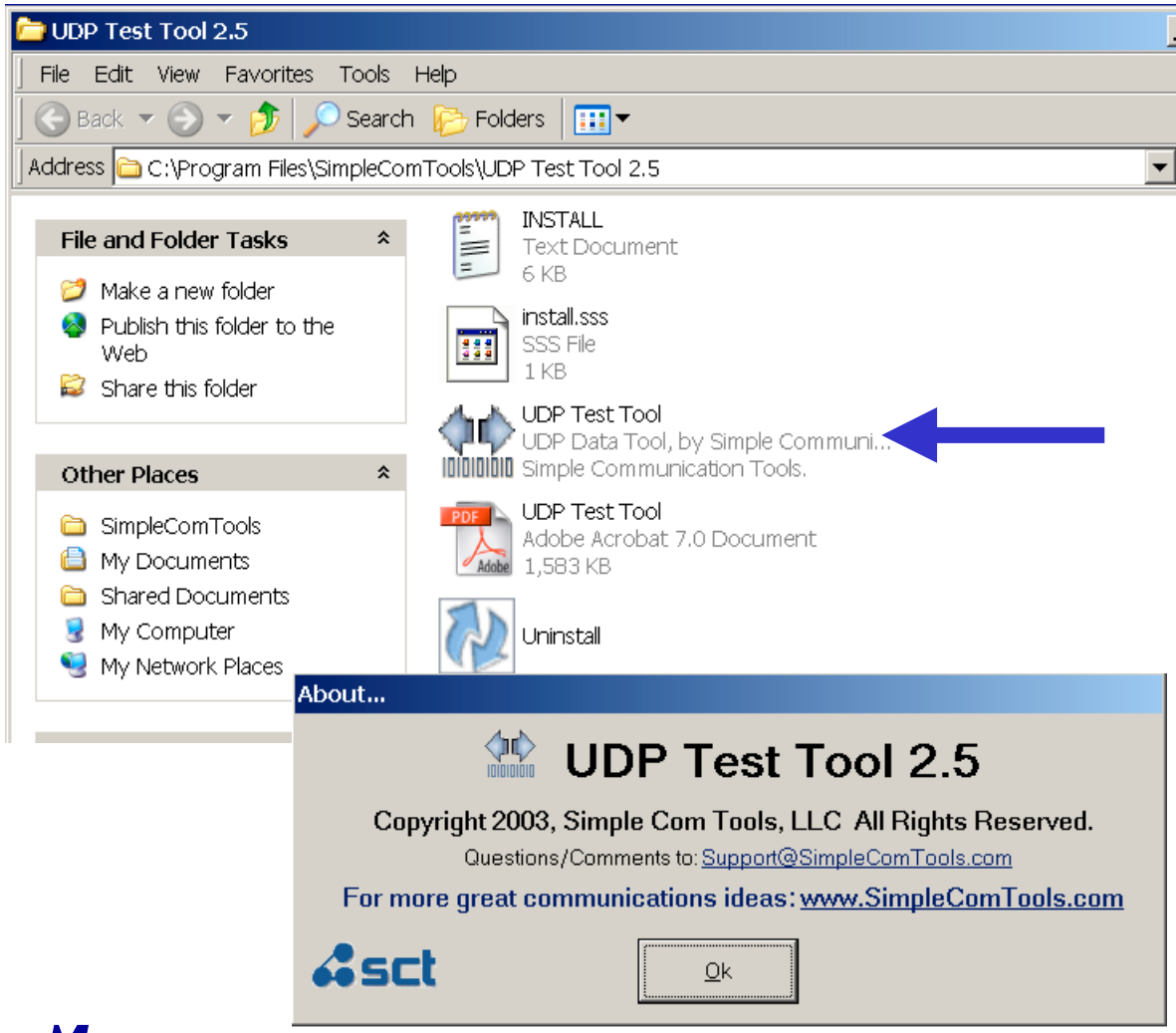
Change the values as shown below, **Note *PPIP must be the same as slide 1's IP address.**



Values have been written to the modem



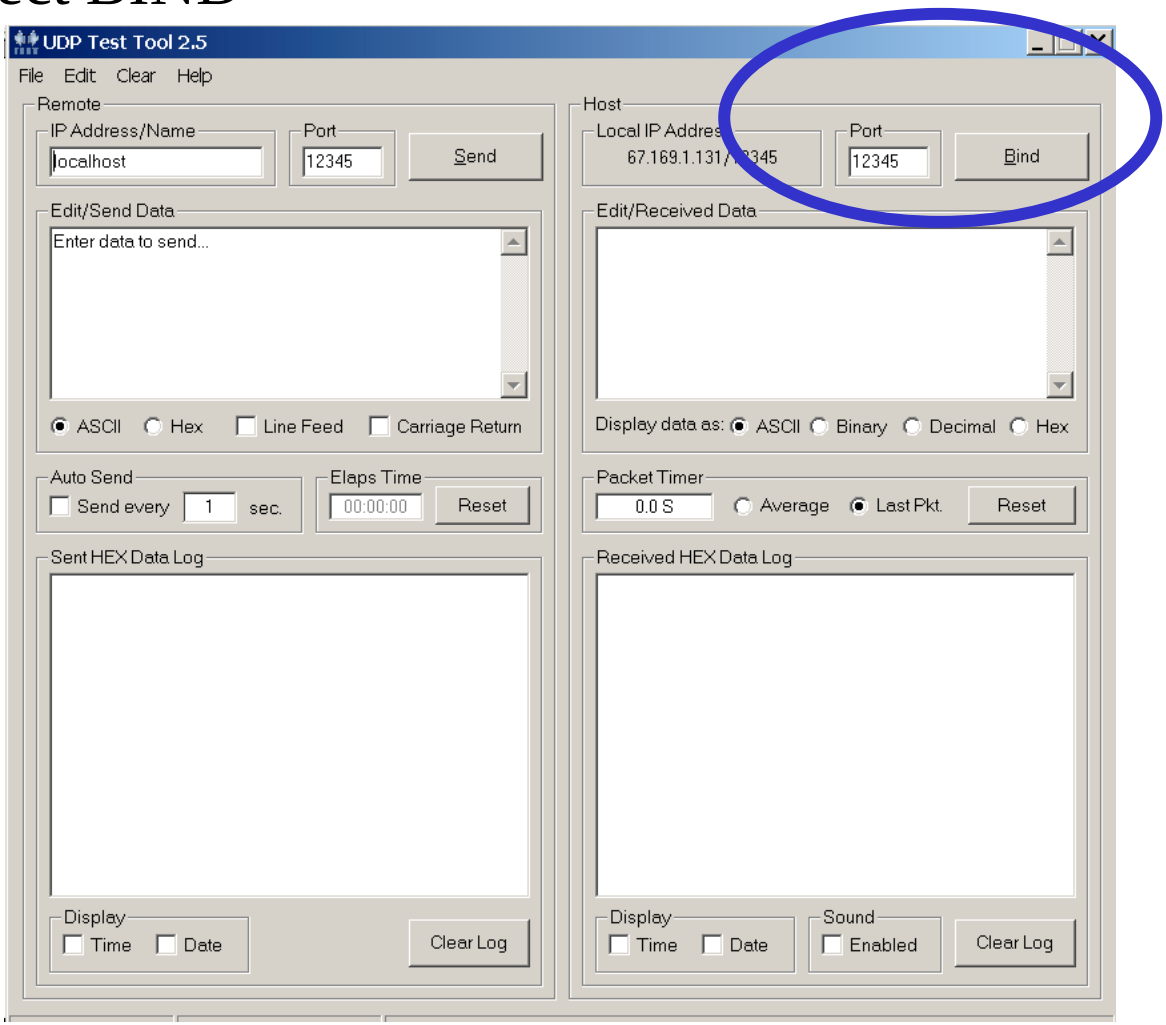
Download UDP Test Tool from
http://www.wirelessmobiledata.com/udptesttool.zip
When it is downloaded, unzip,run and install the program

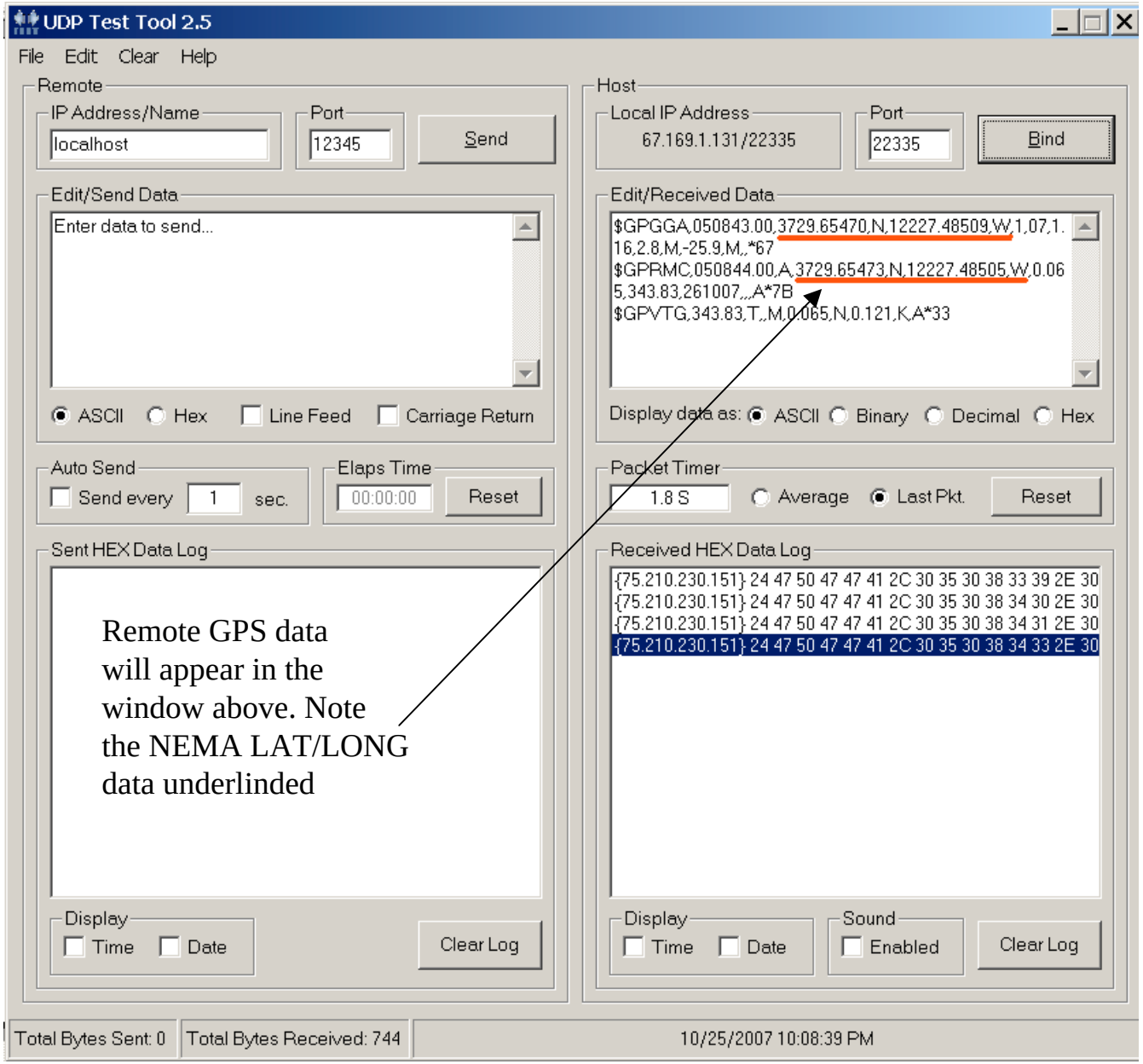


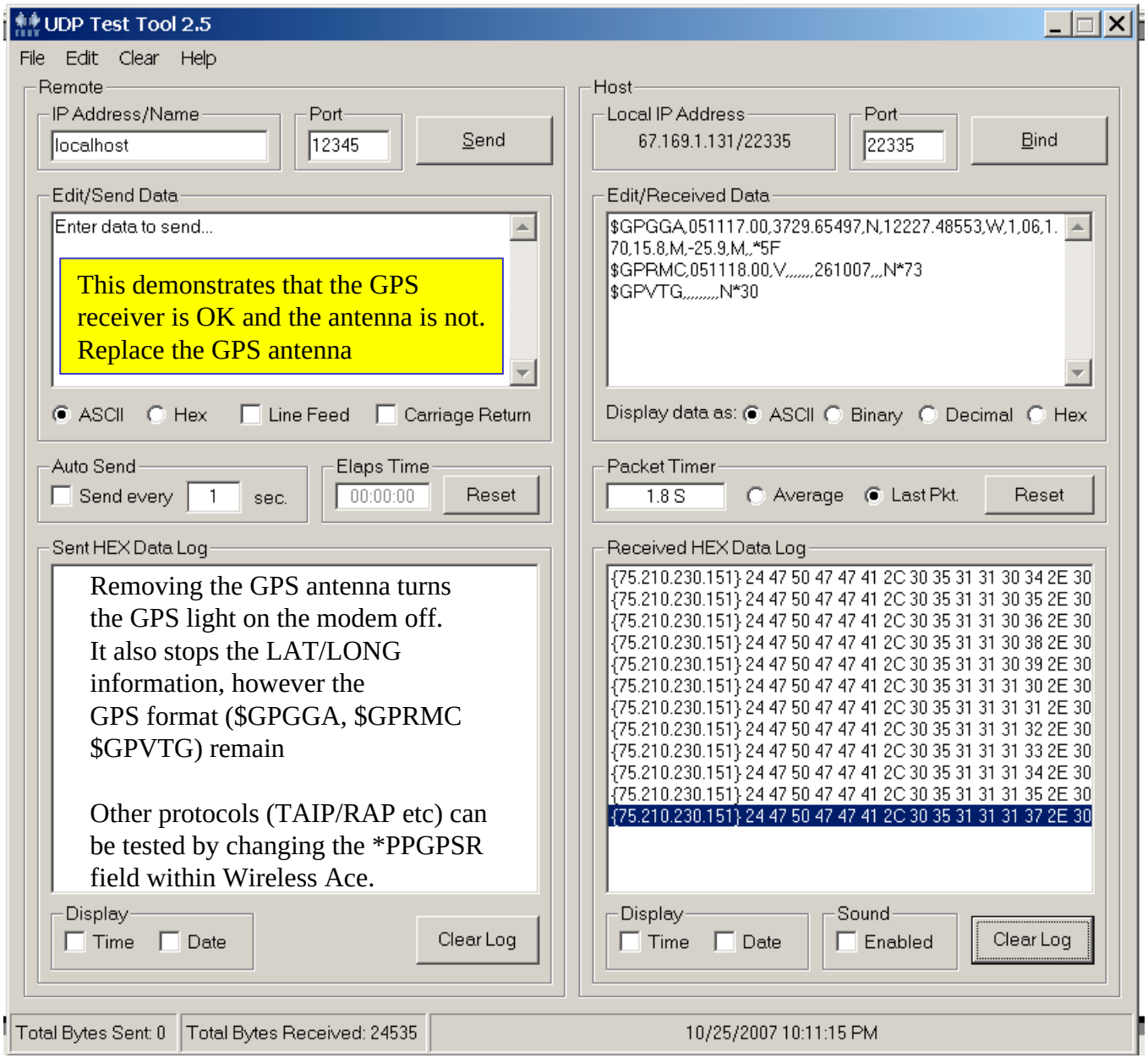
Run this program, create a shortcut if you wish onto your desktop

Select OK after starting the program

The test tool will run. For GPS inbound use the screen on the right. Note the IP address is the same as slide 1. Change the PORT setting to 22335 and then select BIND




UDP Test Tool 2.5
File Edit Clear Help
Remote
IP Address/Name
localhost
Port
12345
Send
Edit/Send Data
Enter data to send...
ASCII Hex Line Feed Carriage Return
Auto Send
Send every 1 sec.
Elaps Time
00:00:00
Reset
Sent HEX Data Log
Display
Time Date
Clear Log
Host
Local IP Address
67.169.1.131/22335
Port
22335
Bind
Edit/Received Data
$GPGGA,050843.00,3729.65470,N,12227.48509,W,1,07,1.16,2.8,M,-25.9,M,,*67
$GPRMC,050844.00,A,3729.65473,N,12227.48505,W,0.065,343.83,261007,,,A*7B
$GPVTG,343.83,T,,M,0.065,N,0.121,K,A*33
Display data as: ASCII Binary Decimal Hex
Packet Timer
1.8 S
Average Last Pkt.
Reset
Received HEX Data Log
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 30 38 33 39 2E 30
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 30 38 34 30 2E 30
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 30 38 34 31 2E 30
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 30 38 34 33 2E 30
Display
Time Date
Sound
Enabled
Clear Log
Total Bytes Sent: 0
Total Bytes Received: 744
10/25/2007 10:08:39 PM
Remote GPS data will appear in the window above. Note the NEMA LAT/LONG data underlinded


UDP Test Tool 2.5
File Edit Clear Help
Remote
IP Address/Name
localhost
Port
12345
Send
Edit/Send Data
Enter data to send...
This demonstrates that the GPS receiver is OK and the antenna is not. Replace the GPS antenna
ASCII Hex Line Feed Carriage Return
Auto Send
Send every 1 sec.
Elaps Time
00:00:00
Reset
Sent HEX Data Log
Removing the GPS antenna turns the GPS light on the modem off. It also stops the LAT/LONG information, however the GPS format ($GPGGA, $GPRMC $GPVTG) remain
Other protocols (TAIP/RAP etc) can be tested by changing the *PPGPSR field within Wireless Ace.
Display
Time Date
Clear Log
Host
Local IP Address
67.169.1.131/22335
Port
22335
Bind
Edit/Received Data
$GPGGA,051117.00,3729.65497,N,12227.48553,W,1,06,1.70,15.8,M,-25.9,M,,*5F
$GPRMC,051118.00,V,,,,,,,261007,,,N*73
$GPVTG,,,,,,,,,N*30
Display data as: ASCII Binary Decimal Hex
Packet Timer
1.8 S
Average Last Pkt.
Reset
Received HEX Data Log
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 31 31 30 34 2E 30
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 31 31 30 35 2E 30
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 31 31 30 36 2E 30
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 31 31 30 38 2E 30
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 31 31 30 39 2E 30
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 31 31 31 30 2E 30
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 31 31 31 31 2E 30
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 31 31 31 32 2E 30
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 31 31 31 33 2E 30
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 31 31 31 34 2E 30
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 31 31 31 35 2E 30
{75.210.230.151} 24 47 50 47 47 41 2C 30 35 31 31 31 37 2E 30
Display
Time Date
Sound
Enabled
Clear Log
Total Bytes Sent: 0
Total Bytes Received: 24535
10/25/2007 10:11:15 PM

Be certain to set the modem back to the original settings as shown on Slide 2 when the testing is done.