

Setup and Configuration of RSS 14.xx.xx For Flashing Quantar/Quantro/AstroTac Receiver/AstroTAC Comparator

The following serial NULL cable must be used when performing flash upgrades. Full hardware handshaking is required for the FTP transfer of files from the computer to the device being upgraded. This cable is used for all devices listed above and in the RSS. Quantar Computer

DB9 Female	Description	DB25 Female	DB9 Female	Description
2	Transmit Data	3	3	Receive Data
3	Receive Data	2	2	Transmit Data
5	Ground	7	5	Ground
7	RTS	4	8	CTS
8	CTS	5	7	RTS

4.2 Microsoft Windows XP Professional

4.2.1 Installing a Null Modem Device

4.2.1.1 Windows Installation

Step 1:

Next open up the Control Panel and double click on the “Phone and Modem Options” icon.



Phone and Modem
Options

Figure 1

On the screen that appears select the “Modems” tab. Then press the “Add” button at the bottom of the screen.

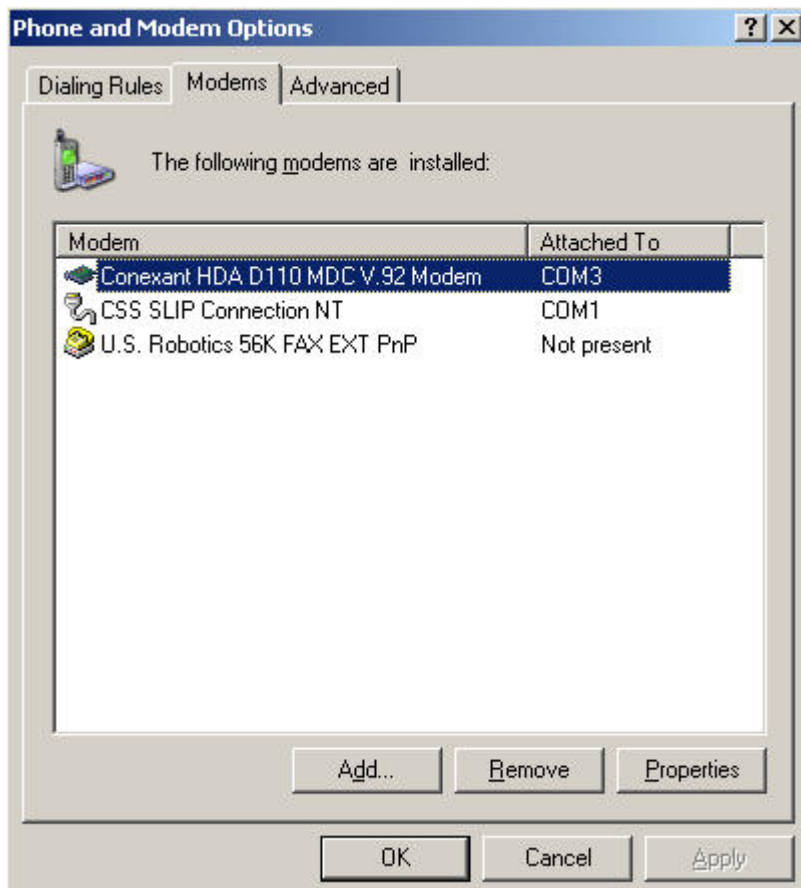


Figure 2

On the window that appears select the “Don’t detect my modem; I will select it from a list” check box. Then press the “Next” button.

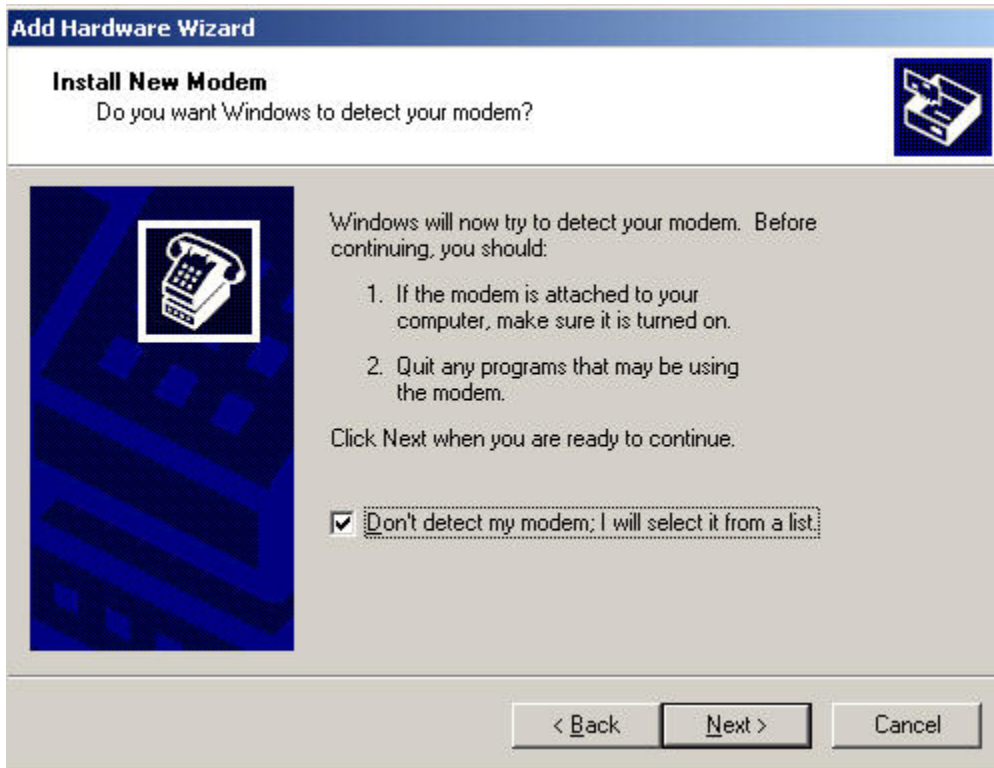


Figure 3

On the screen that appears highlight “Communications cable between two computers” and press the “Have Disk” button.

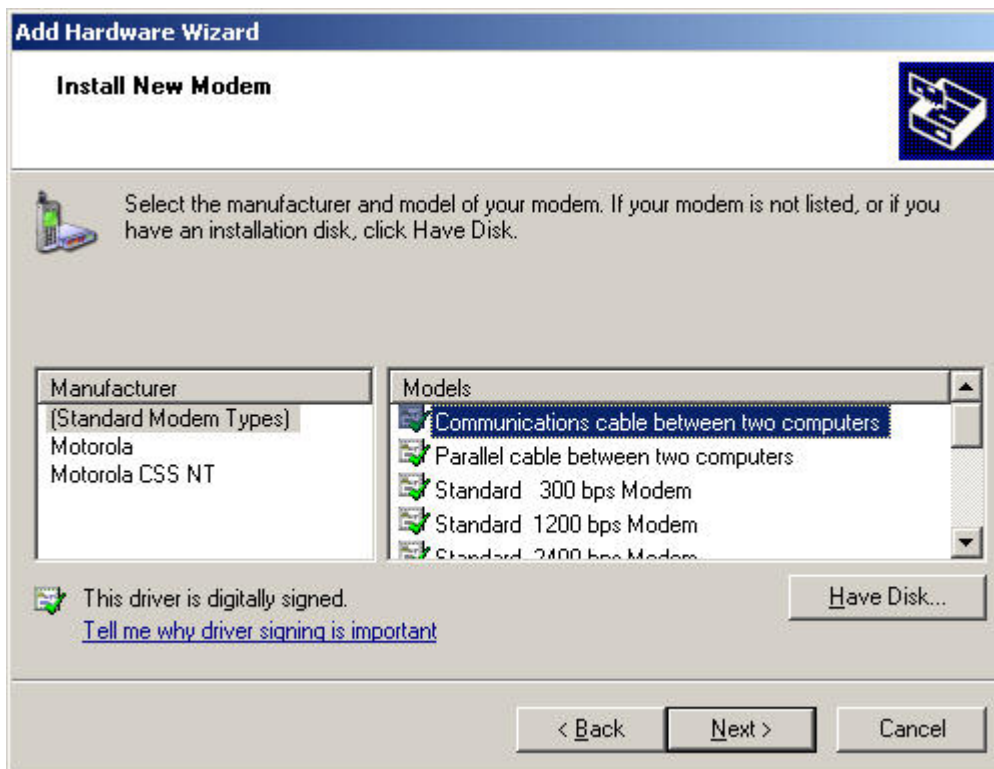


Figure 4

On screen that appears browse to the directory which contains the mdmmotcss9x.inf and mdmmotcssnt.inf files.

(Usually C:\Program Files\Motorola\Radio Service Software)

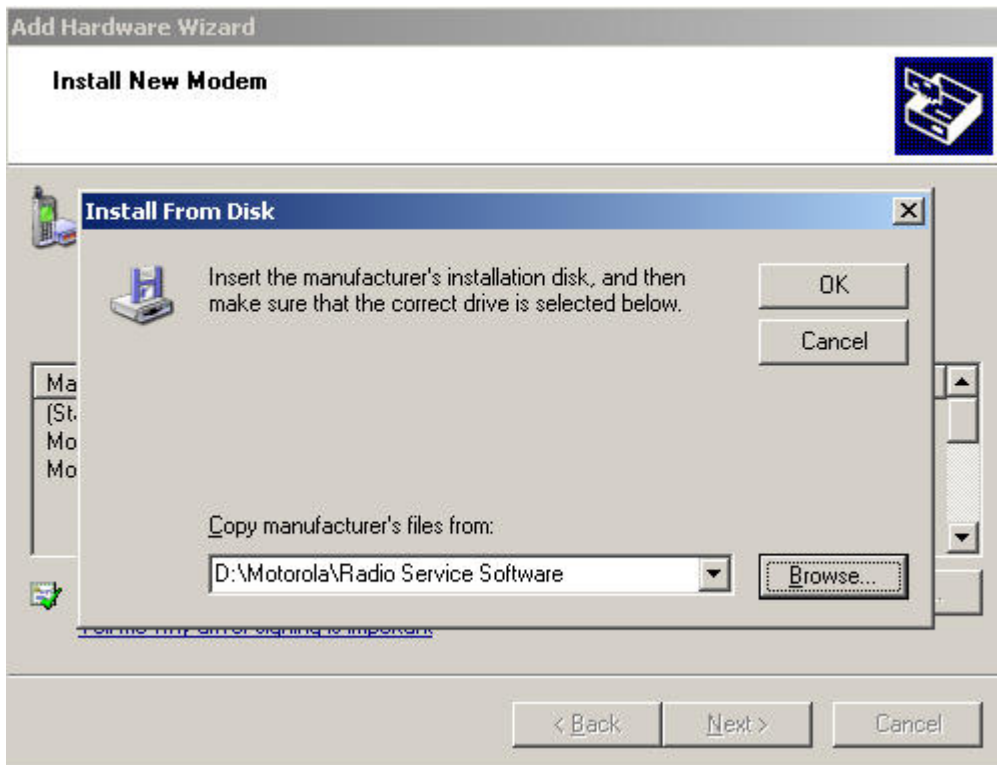


Figure 5

Highlight the file "mdmmotcssnt.inf". Press the "Open" button.

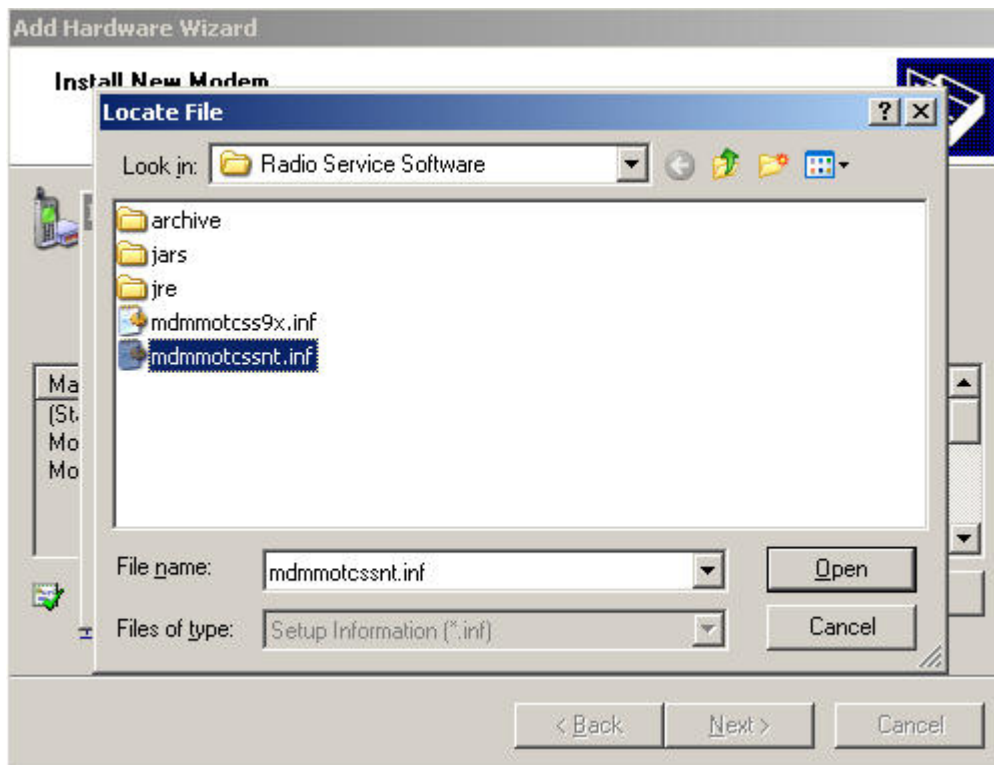


Figure 6

Then a screen that looks like the following should appear;

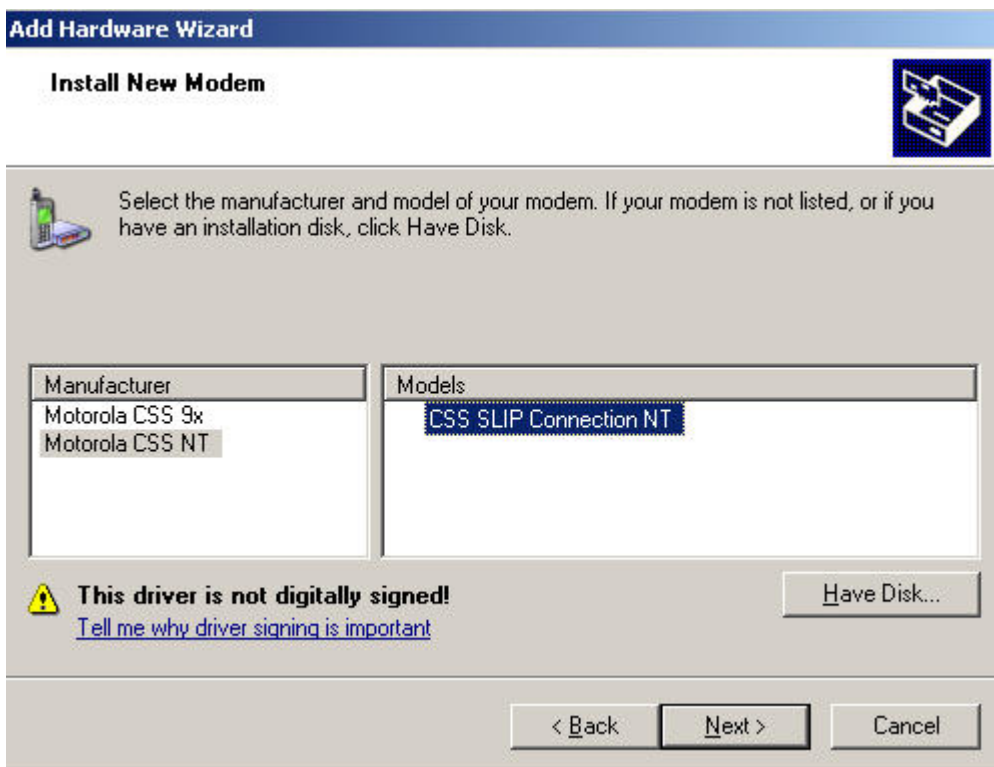


Figure 7

From this screen select “Motorola CSS NT” from the Manufacturers list and “CSS SLIP Connection NT” from the Models list. Then press the “Next” button.

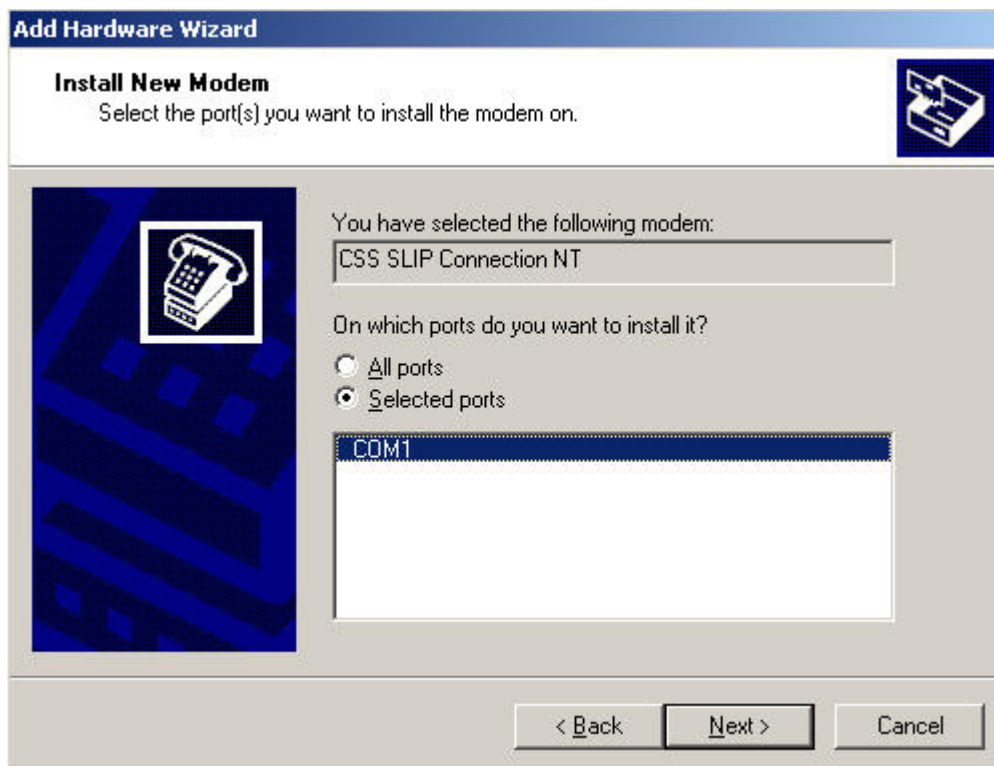


Figure 9

On the screen that appears chose the “Selected ports” radio button and then select the PC port that you will be using to perform the Serial Software Download to the Base Station. Then press the “Next” button. You will now be presented with a warning message that the software has not been qualified for XP. Just disregard it by pressing the “Continue Anyway” button. If the Operation was successful you will be presented with the following screen:

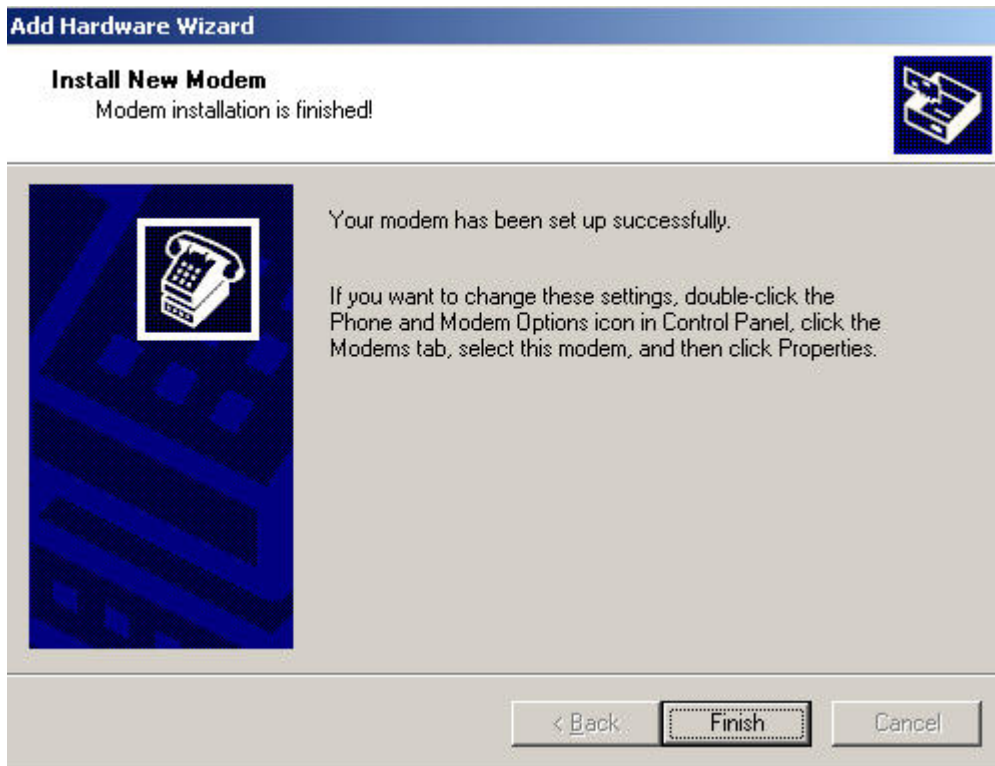


Figure 10

Press the “Finish” button to exit.

Step 2:

Once you press the “Finish” button on the above screen you will be presented with the following screen.

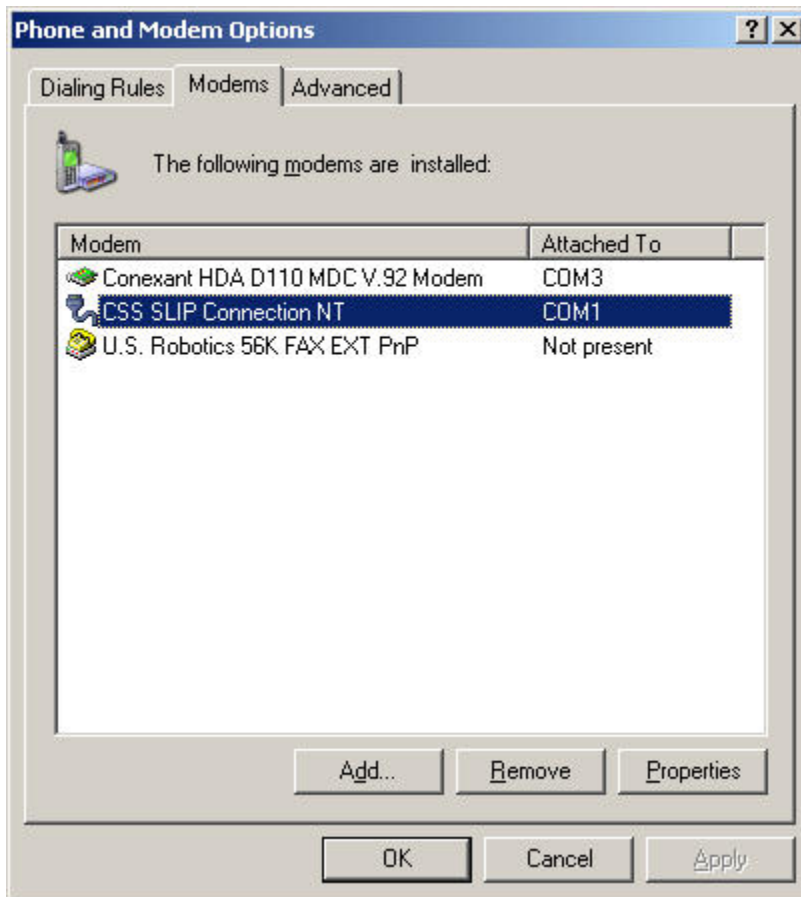


Figure 11

This screen will now contain the modem connection you just created. On that same screen highlight your new connection and press the “Properties” button at the bottom. On the screen that appears select the “Advanced” tab

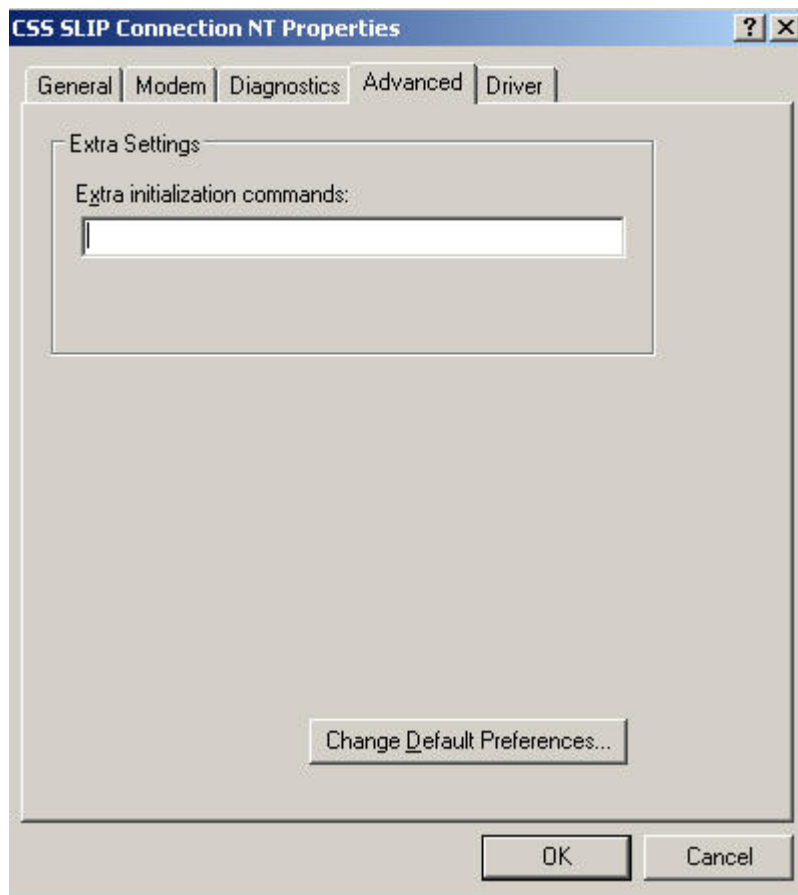


Figure 12

Then press the "Change Default Preferences..." button found at the bottom of that tab screen.

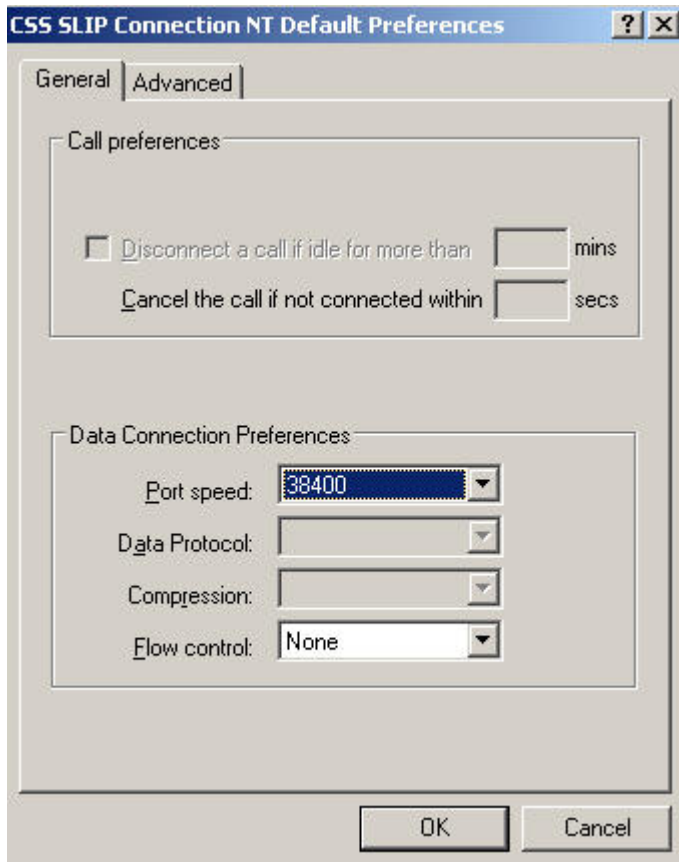


Figure 13

On the "General" tab select "None" for the "Flow control" option and "38400" for the "Port Speed" option.

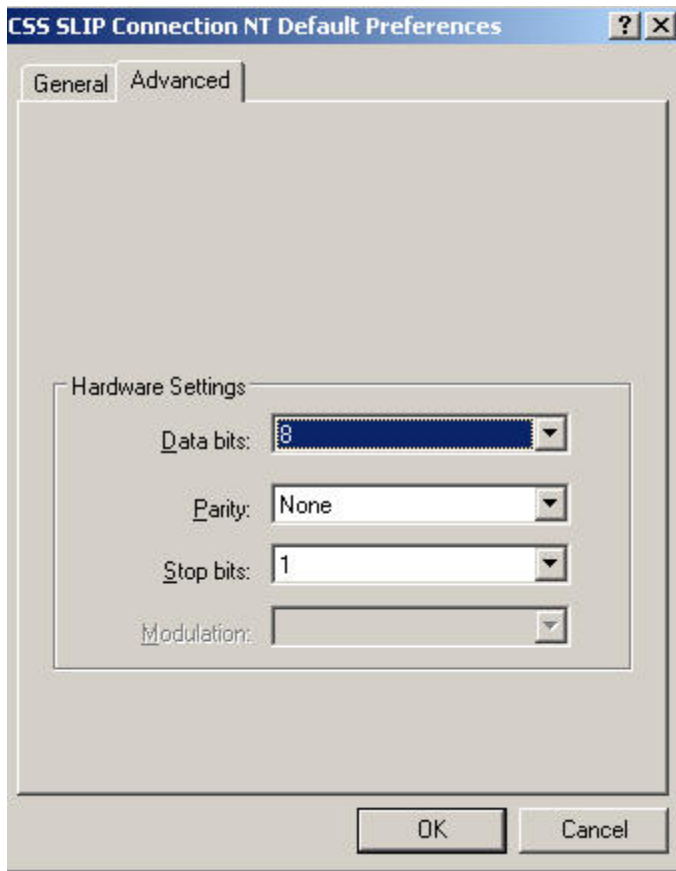


Figure 14

On the “Advanced” tab select “8” for “Data bits”, “None” for “Parity” and “1” for “Stop bits”. Then press the “OK” button on all open screens until you reach the control panel again.

4.2.1.2 Physical Connection

In order to establish the physical connection between the PC and the Base Station, attach one end of a RS232 DB9 cable to the PC comm. port selected in the above steps and the other to either the front or back end port of the Base Station.

4.2.3 Creating the Null Modem SLIP connection Windows entries

Step 1:

Open up the Control Panel and double click on the “Network Connections” icon.



Network Connections

Figure 15

On the screen that opens select “New Connection” from the “File” menu

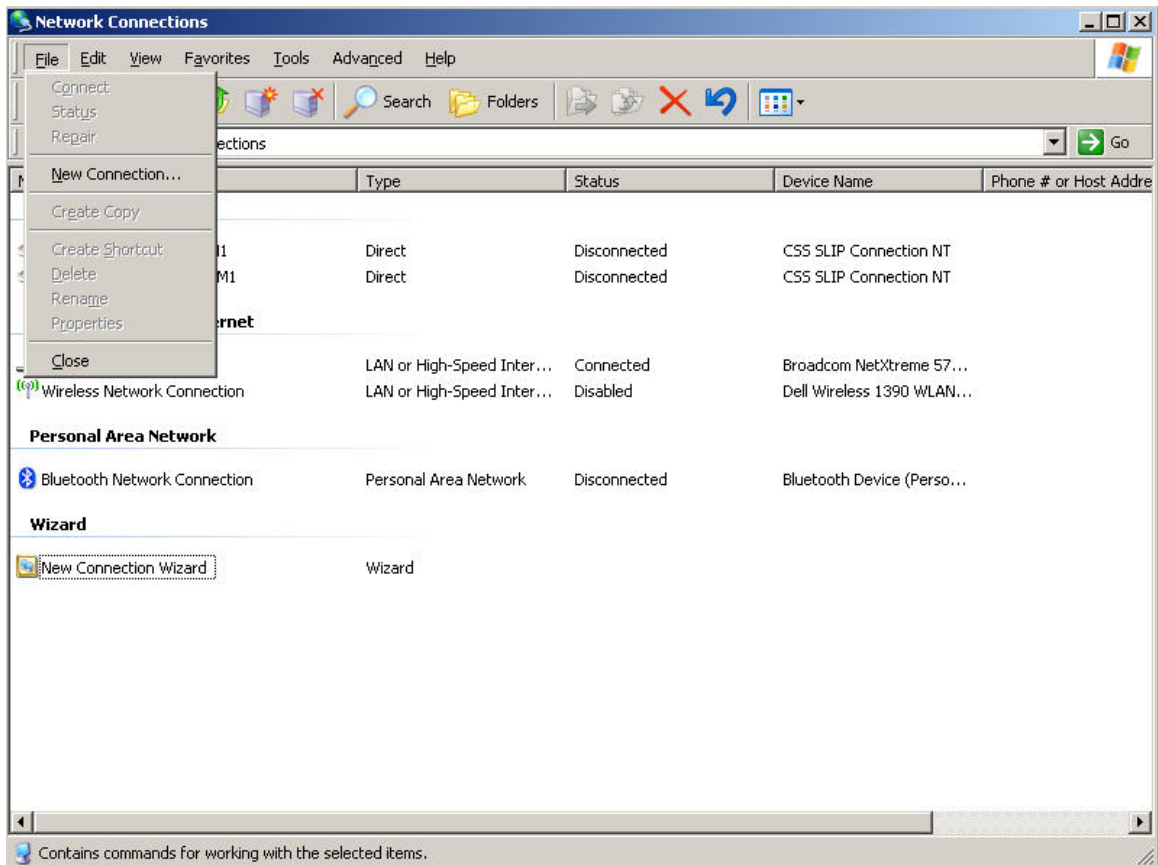


Figure 16

Press “Next” on the window that appears:



Figure 17

You will be presented with the following screen: On this screen select the "Set up an advanced connection" radio button then press the "Next" button.

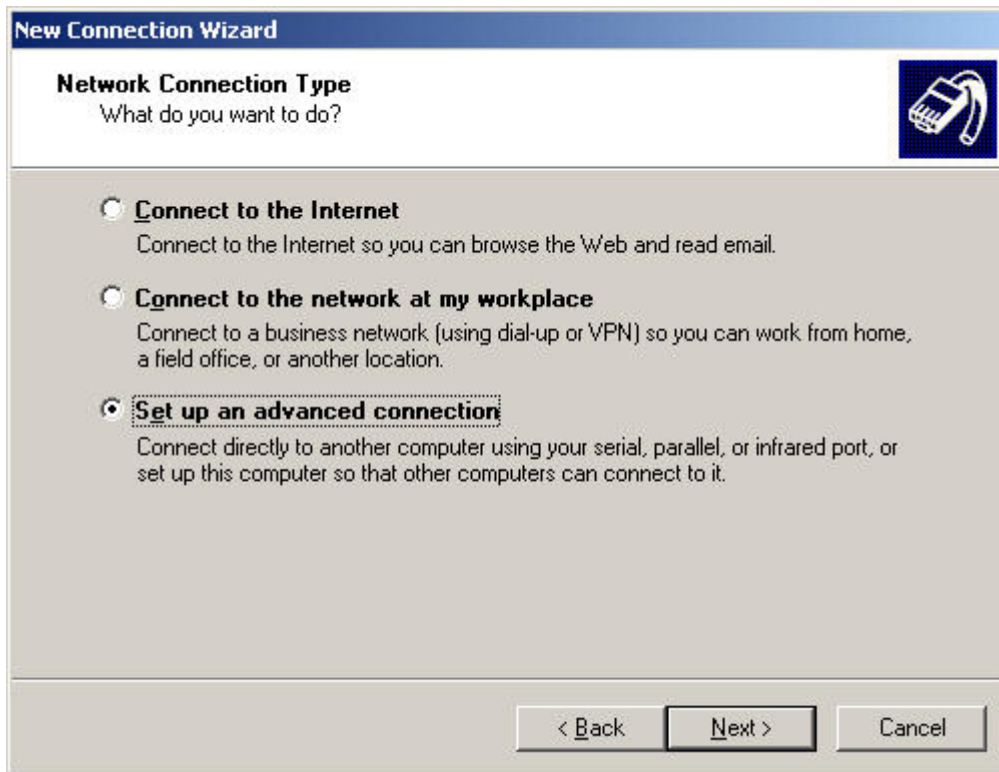


Figure 18

On the screen that appears select the “Connect directly to another computer” radio button, and then press the “Next” button

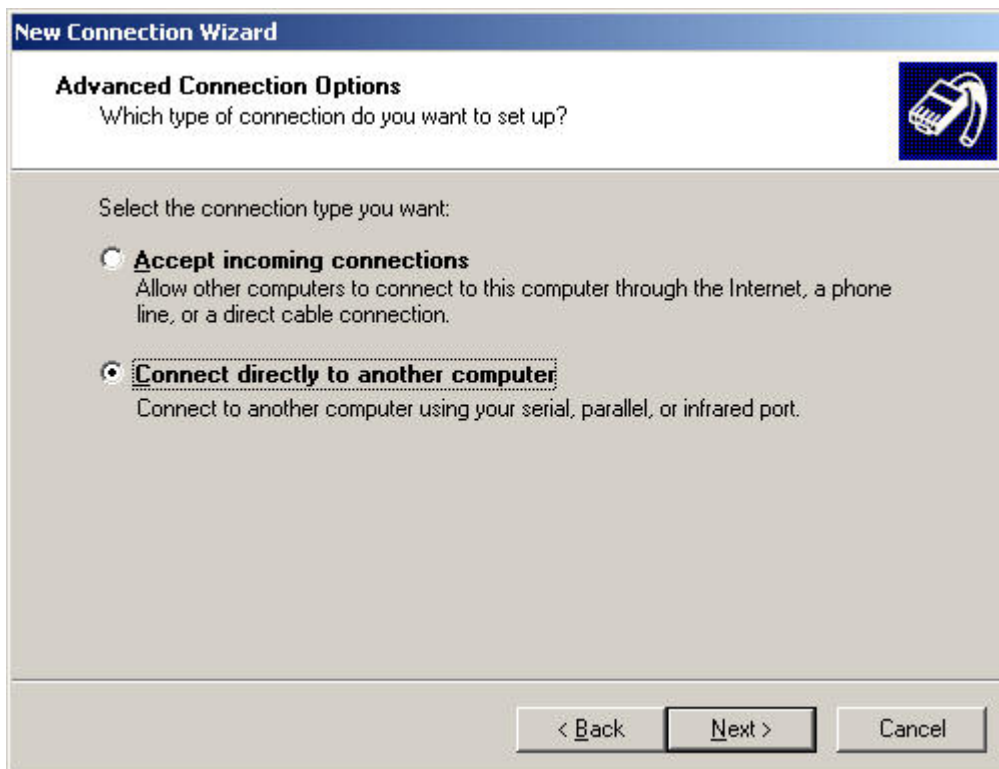


Figure 19

On the screen that appears select the “Guest” radio button and press the “Next” button.



Figure 20

On the screen that appears you will have to enter the name of the connection and then press the “Next” button.



Figure 21

NOTE:

Please see section on "RSS SLIP connections naming convention" on information on how to name your connection.

On the screen that appears select the "Anyone's use" radio button and press the "Next" button.

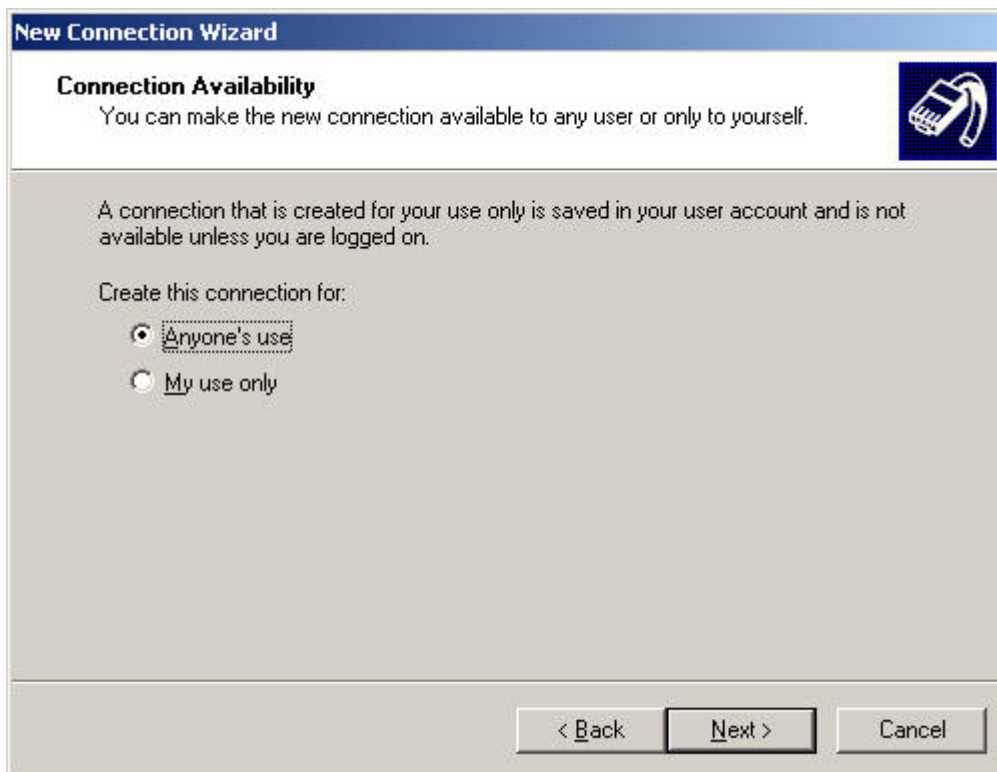


Figure 22
On the screen that appears press the “Finish” button.

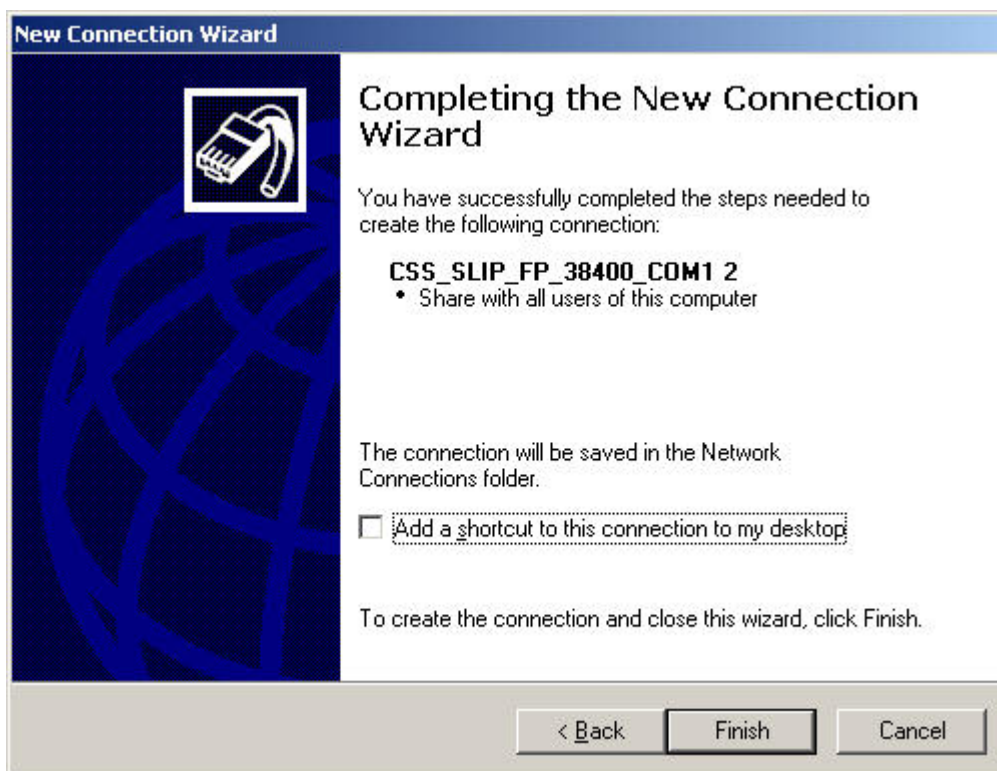


Figure 23

You will be presented with the following screen. Press the “Properties” button.



Figure 24

You will be presented with the following screen. Press the “Configure” button.

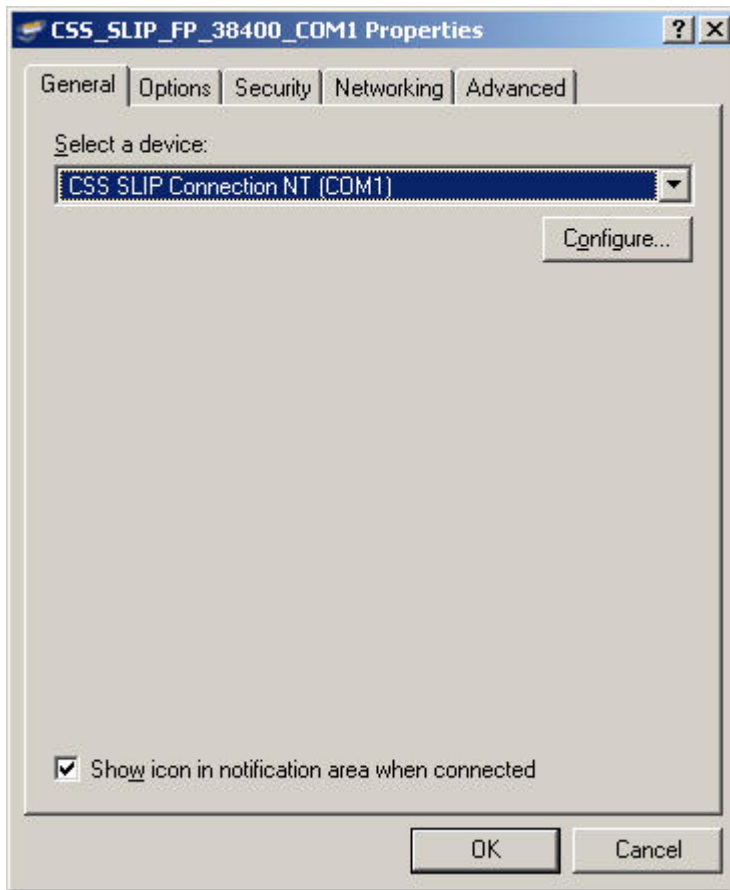


Figure 25

Set the Maximum speed (bps) box to 38400. Deselect all options except Enable modem speaker. Click OK.

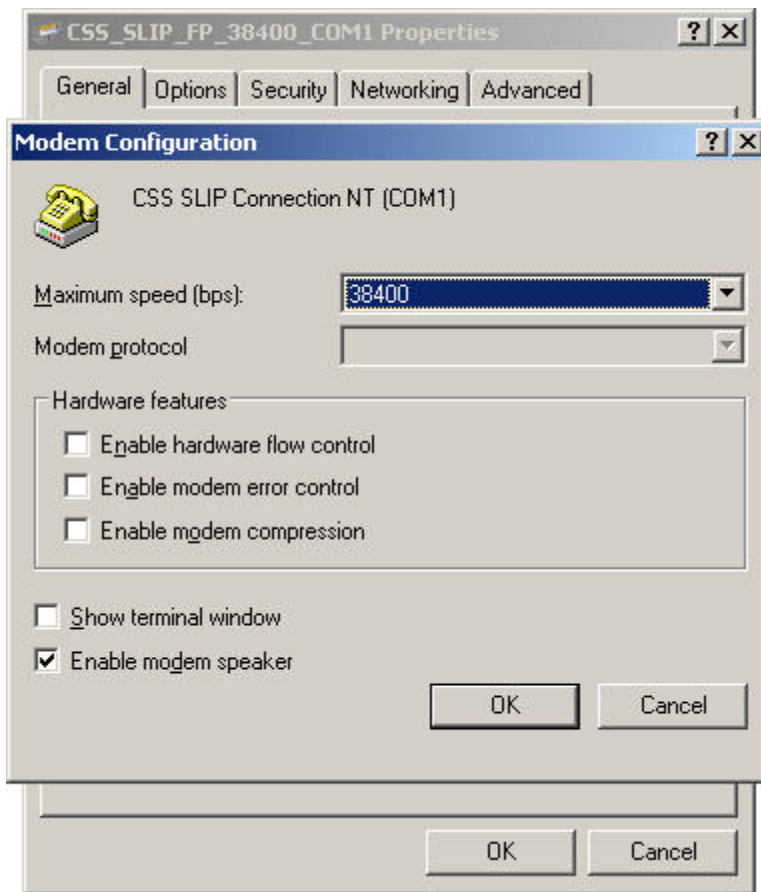


Figure 26

Select the "Options" tab and set the option selections as shown in the figure below;

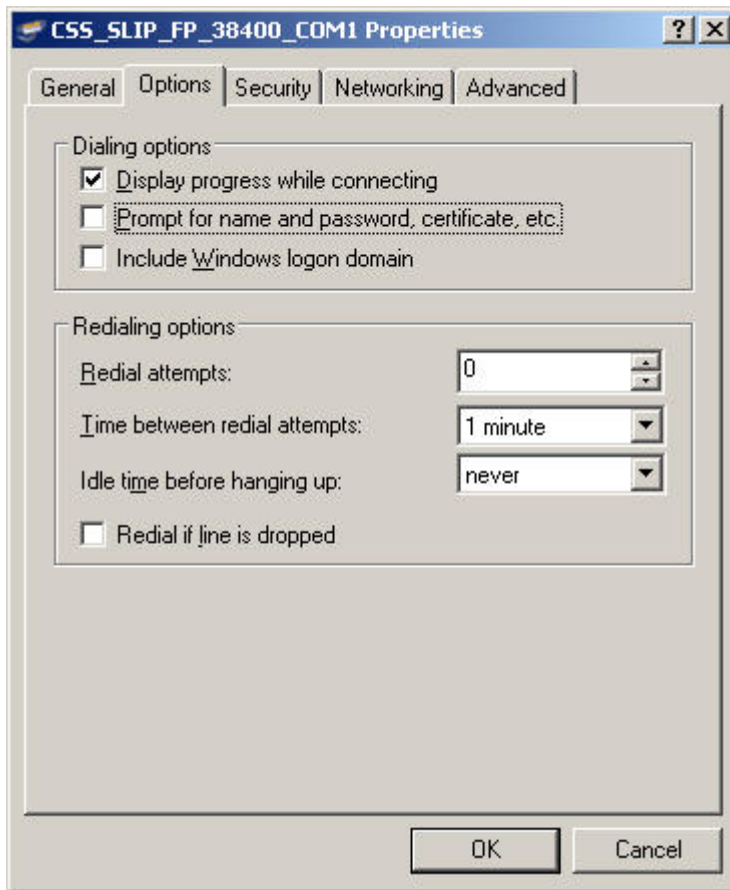


Figure 27

Select the "Networking" tab of (Figure 50) and set the option selection as shown in the figure below;

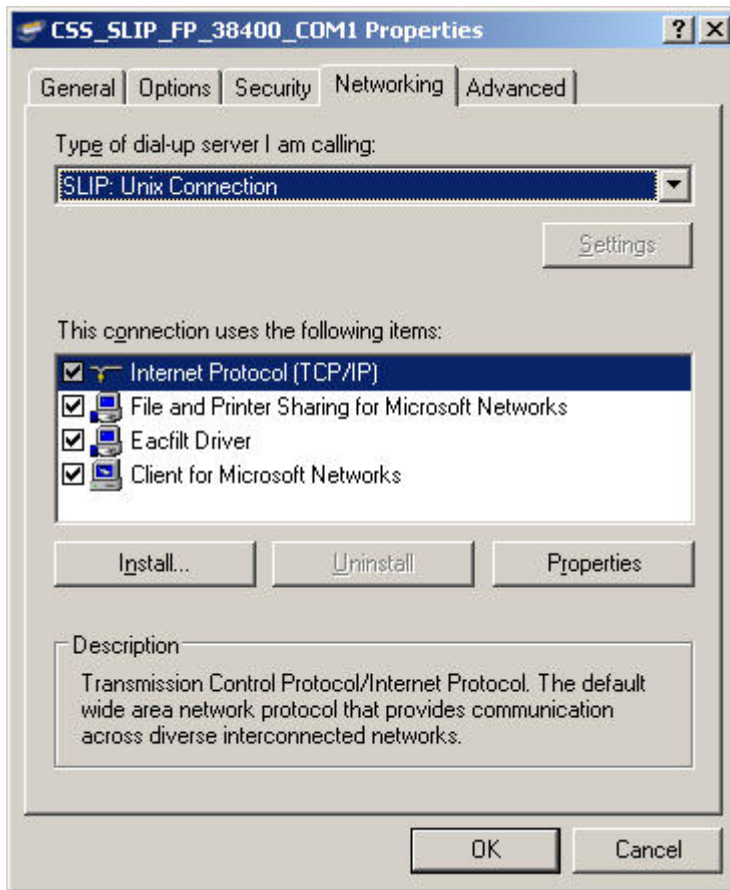


Figure 28

Select the "Internet Protocol (TCP/IP)" entry then press the "Properties" button. You will be presented with the following screen;

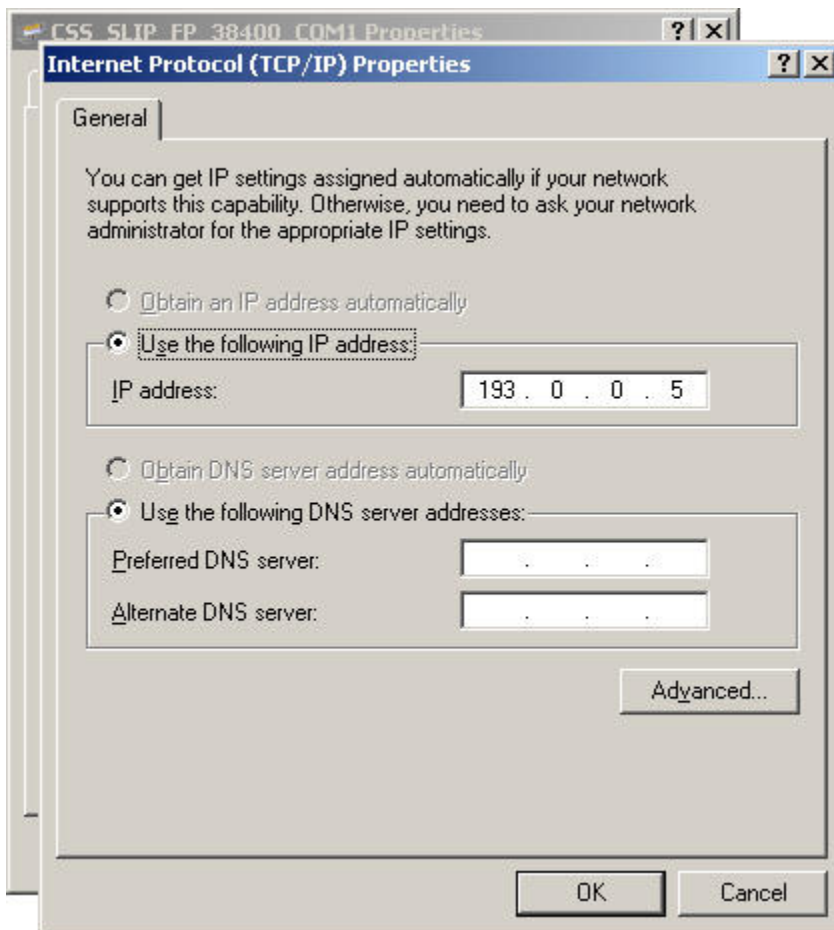


Figure 29

The only field you will have to be concerned with is the “IP Address” field. The rest should remain blank.

IP VALUE DETERMINATION

If the connection being configured will be connecting to the front port of the base station then the IP should be **193.0.0.5**

If the connection being configured will be connection to the back port of the base station then the IP should be **193.0.0.4**

After you are done press the “Advanced” button and you will be presented with the following screen:

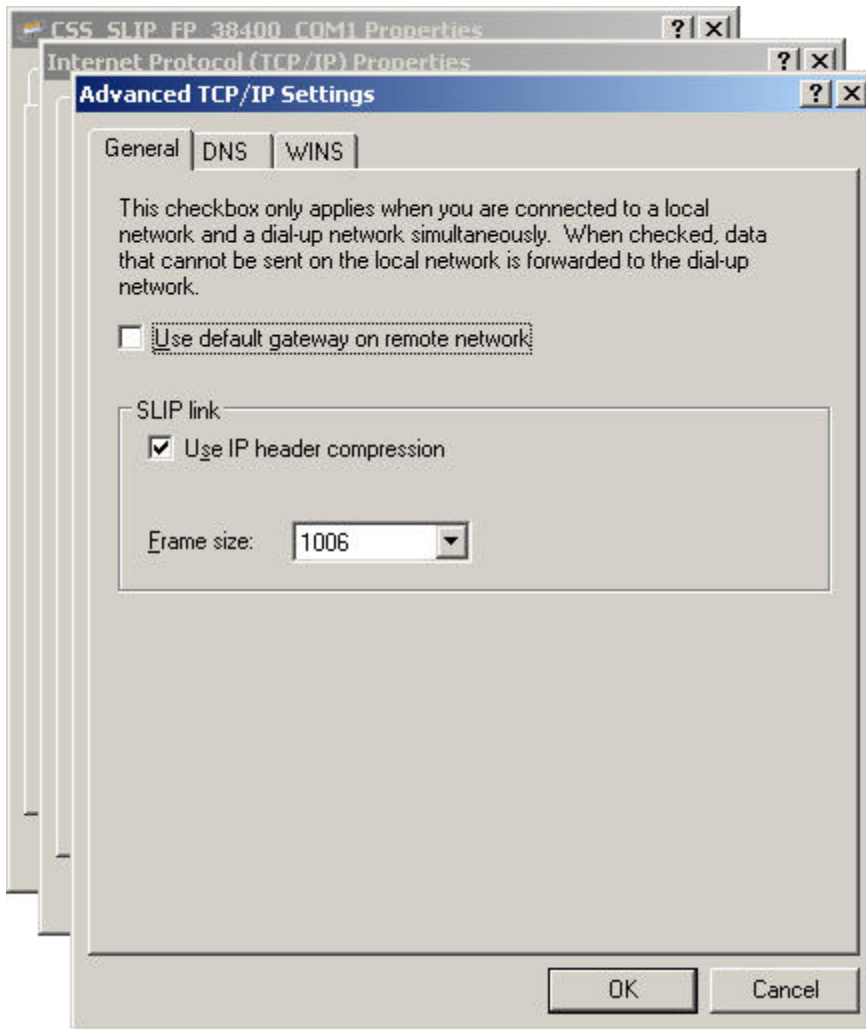


Figure 30

Uncheck the “Use default gateway on remote network” check box After you are done press the “OK” button on all open screen until you come back to the “Network Connections” screen. Your connection is now fully configured.

5 RSS SLIP Connection Naming Convention

Due to the limitation of dynamic creation of a SLIP connection using the Windows Remote Access Service (RAS) module, a naming convention as needed in order to allow the RSS to communicate with the Windows RAS.

Naming Convention for Null Modem(serial cable) install:

NOTE:

The CSS application uses the same connections for Null Modem (Serial) SWDL, therefore the same naming is used for both applications. A windows RSS SLIP connection name has three items which depend and describe some physical

parameters of the connection. A typical RSS SLIP connection name is CSS_SLIP_FP_9600_COM1, and the naming convention break down is as follows:

CSS_SLIP : This part of the connection is fixed. All RSS SLIP connections must start with this string.

FP : This part of the name describes which base station port the connection is capable of connecting with. Possible values are "FP" (front port) and "BP" (back port).

9600 : This part of the name describes the baud rate at which the connection will be communicating with. This value must coincide with the actual baud rate that the connection was configured at.

COM1 : This part of the name describes the PC Comm. port that will be used to establish the connection.