white bream

IrCOMM communication with Windows XP

S131 Infrared protocol stack with IrCOMM

Version	Date	Author	Comment	Copyright © 2006
1.0	Feb 21, 2006	Henk Bliek	Initial document	

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Description:	S131 Infrared protocol stack- IrCOMM		S131RP003 - IrCOMM with XP.odt
Project:	S131		
Status:	Accepted	Pages: 9	

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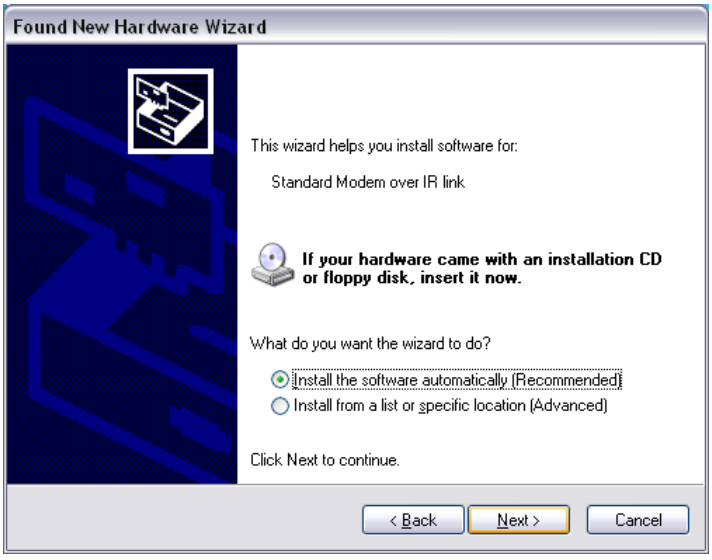
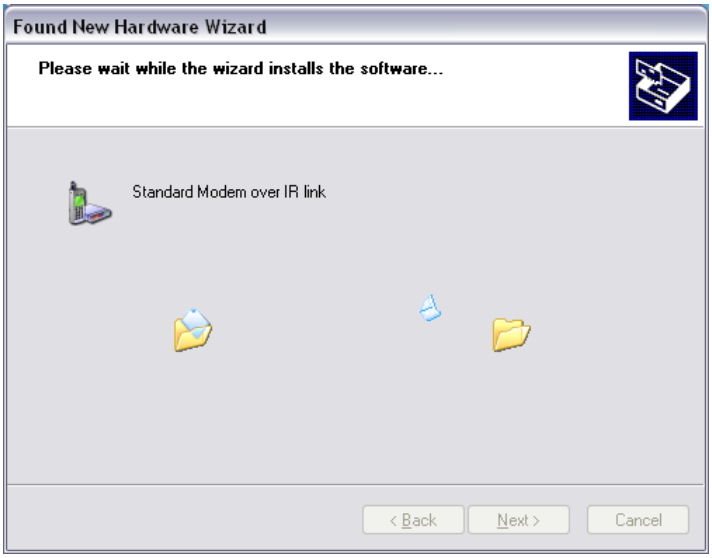
1 Hardware installation

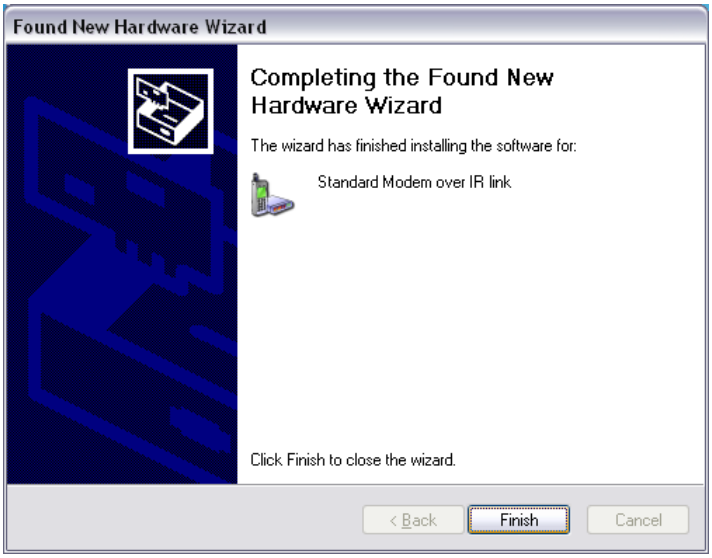
After first contact with the device containing the S131 Infrared protocol stack, Windows XP will show the 'Found New Hardware Wizard' dialog window:

Choose 'Yes, this time only' and click next;



Choose 'Install the software automatically' and click next;



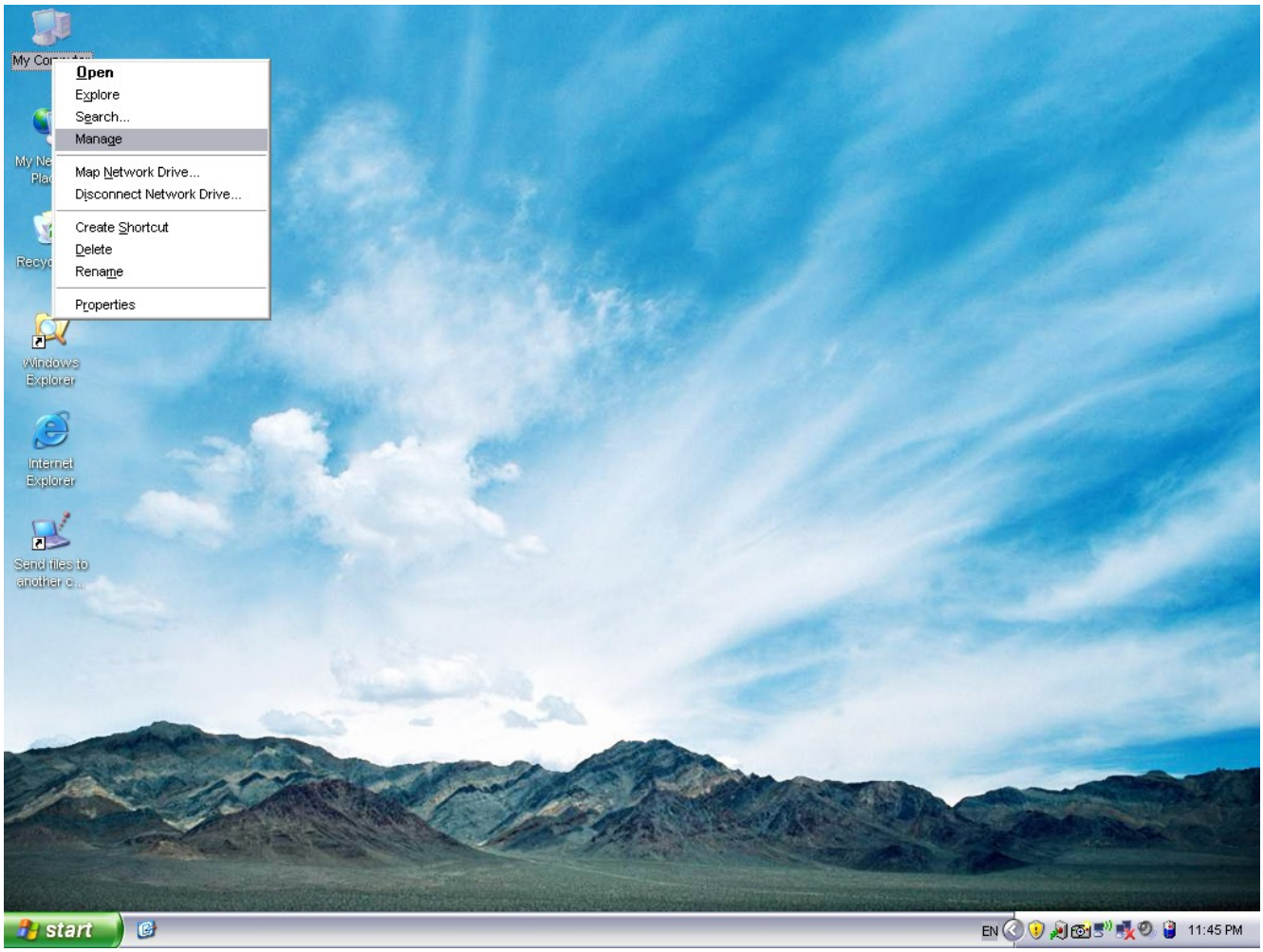


White Bream develops and markets an IrDA protocol stack. This stack is typically sold as a royalty free source license. There is a strong impression however that many potential customers prefer to have working evidence before deciding to

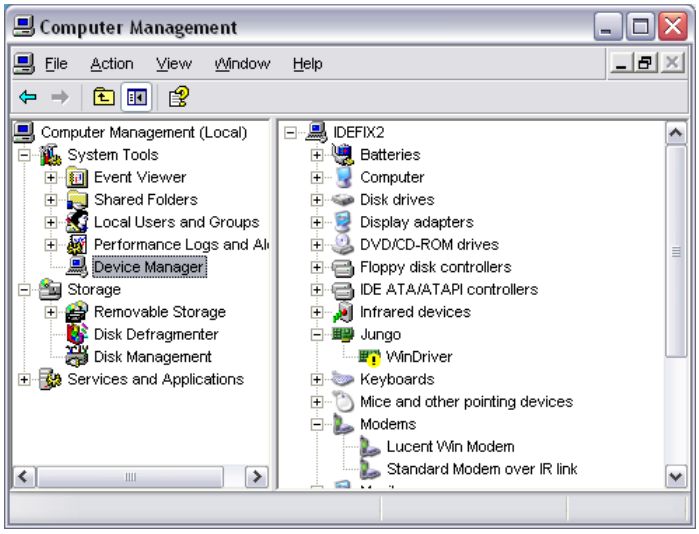
Click 'Finish' to close the wizard and to continue.

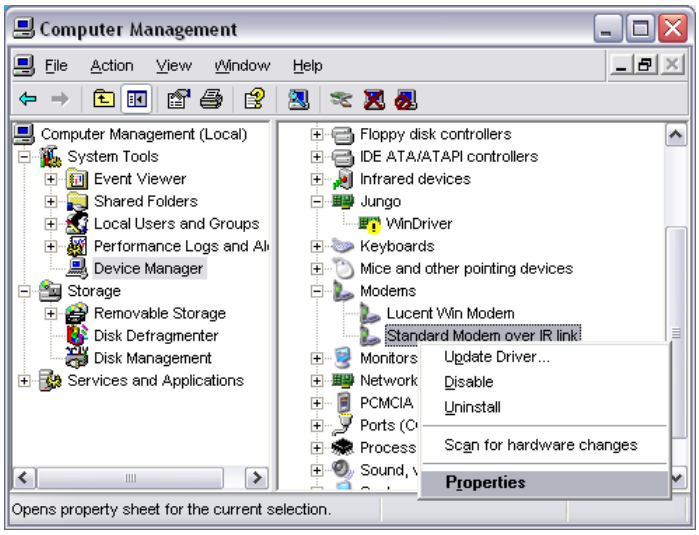
2 Find the emulated COM port number

Go to the desktop or to the system root in explorer.
Right-click 'My Computer' to open the context menu and select 'Manage':

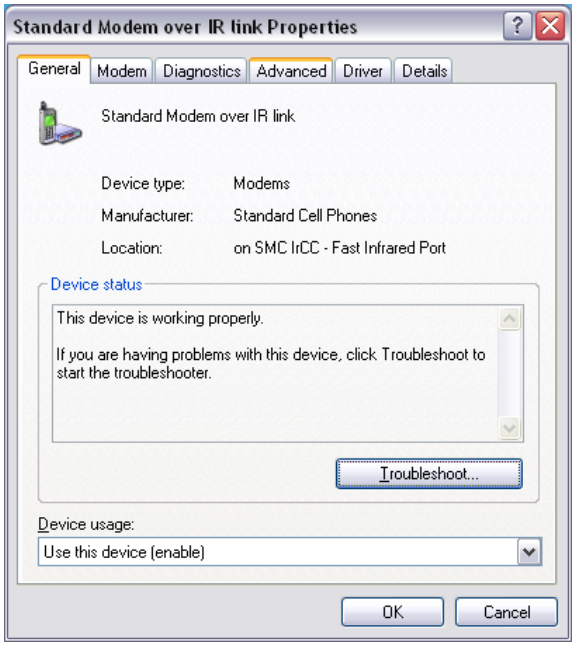


This opens Computer Management, here select 'Device Manager' on the left. Then browse to the 'Modems' entry and double-click 'Standard Modem over IR link'.

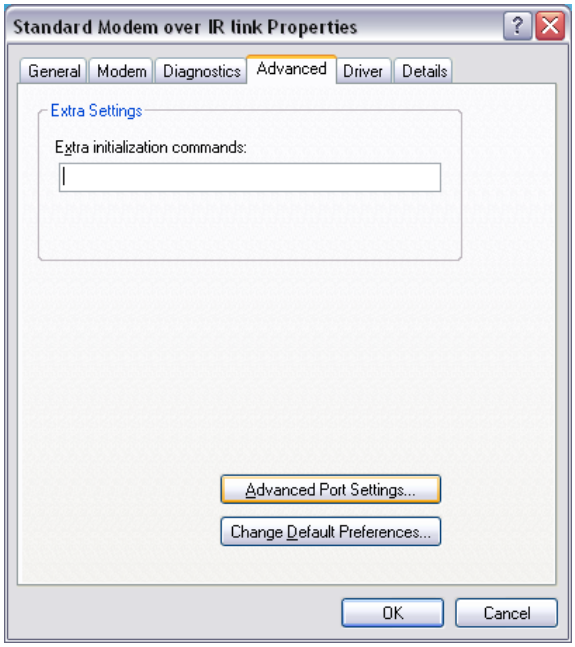


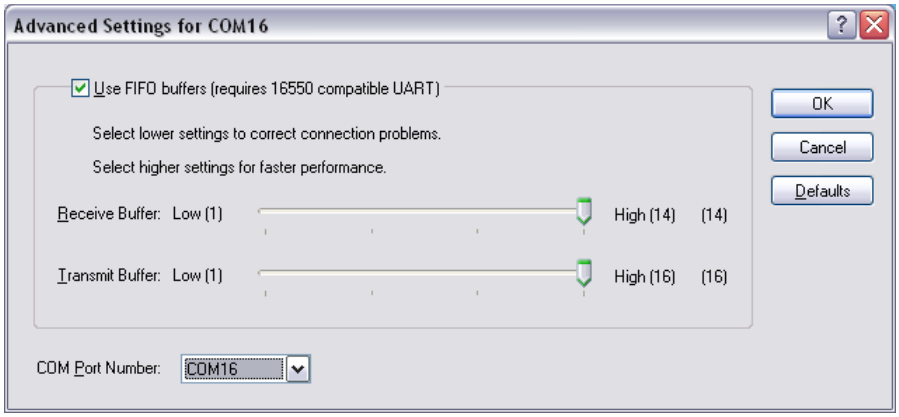


Now Windows will make contact with the Infrared device in order to try to figure out what kind of modem is attached. This takes a couple of seconds and then the modem properties dialog box is shown:



Now go to the 'Advanced tab' and click the 'Advanced Port Settings' buttom to look up the COM-port number at the bottom of the resulting dialog page:





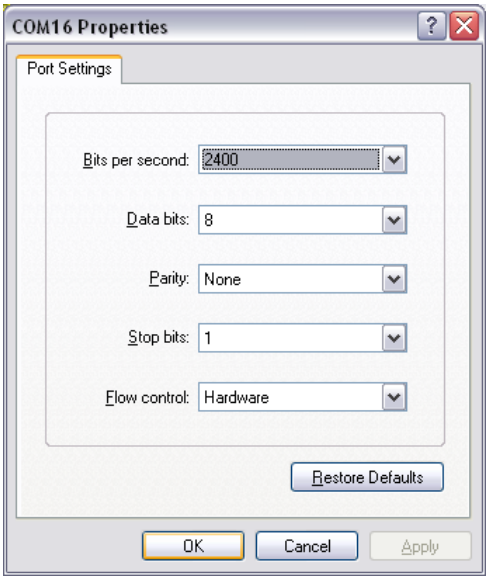
Nothing has to be changed in the port or in the modem dialog pages, so everything can be cancelled back to 'My Computer' where we started.

3 Initial communication

Using the COM-port id that we acquired in the port settings window of the Standard Modem over IR link properties, we will now create the first communication link with the infrared device.

Open Hyperterminal from Start > Programs > Accessoiries > Communications. This will open the Connection Description window. This simply needs some name...

After OK the connection settings can be entered. In the 'Connect using' dropdown list we select the COM-port that we have discovered before. The other settings will gray out, so just tick 'OK' to continue.



The serial port properties are not very useful for an emulated port so just click OK.

Voila. Now Hyperterminal should connect ('call') and the connection is realized. The demo application below did nothing but echoing everything that is received, hence the text in the terminal window.