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Quick Guide to Using the Nokia 8210 with an Infrared data connection

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1. INTRODUCTION

The scope of this document is to provide guidelines how to configure Windows 95 or Windows 98 environment with Nokia 8210 so that internal data and fax features can be used.

2. WINDOWS 95 CONFIGURATION

In order to use Nokia 8210 data and fax capabilities with Windows 95 IrDA must be installed in PC. To check if your PC has Microsoft IrDA software installed follow steps described below.

2.1 Checking IrDA support in Windows 95

1. Open *Control Panel* (*Start* | *Settings* | *Control Panel*)
2. Check if you find *Infrared* icon in there

In case you find the icon double click it and move further to chapter “IrDA settings” otherwise follow instructions in chapter “Installation of MS IrDA support for Windows 95”.

2.2 Installation of MS IrDA support for Windows 95

1. Before installation check that your computer have IR-port activated from BIOS setup and/or from proprietary control panels like IBM's *ThinkPad Center*. If you are not sure how to do this, please do ask help from local IT-support or consult your PC manuals.

Note: New Toshiba models (PCI-infrared port) require infrared driver for Windows 95 from Toshiba's support page. Please try to locate drivers for your Toshiba laptop from for example http://www.toshiba-tro.de
Install this driver before installing Microsoft IrDA driver.

2. Microsoft provides their IrDA support in a self-extracting file “W95IR.exe” which can be found from Download section in Microsoft Windows 95 web pages http://www.microsoft.com/windows95 in case you don’t have it already available.
3. Run the self-extracting file in some directory in your local disk. (E.g. in C:\temp.) The file creates a new directory MSIR20 into root of your local disk. (E.g. C:\MSIR20)
4. Run setup.exe from MSIR20 directory.
5. Configure the ports according to your hardware. Usually physical IR-port is COM2.

6. And application support is usually provided to port COM4. In case COM4 is already occupied in your PC by another application support is provided to next available free COM port.

TIP: If you don't have many free COM ports and you want to use infrared device in 16-bit application (application support provided must be COM1 – COM4) install physical infrared port to COM5 – COM9 and application support to COM4.

7. Start the MS IrDA stack by double clicking the *Infrared* icon in *Control Panel*.

Figure 1. Windows 95 Infrared Monitor (Ms IrDA 2.0)

8. Now you should have working IrDA connection. You can make a short cut from Irmon.exe to your desktop or put in your startup directory.

Only for a Nokia 6100 series phone and Nokia Data Suite users:

***Please note**: If you are using the IR connection, the IrDA and Nokia Data Suite cannot be run at the same time! So, if you are using a Nokia 6100 series phone for infrared transmission and running Nokia Data Suite under Windows 95 , and you install MS IrDA 2.0, then you will have to disable the infrared communication in the Infrared Monitor every time you wish to use the Nokia Data Suite. NOTE! This also applies if you are using: 1. Nokia Data Suite simultaneously with any version of I e Nokia PC Suite or any other application that requires the MS IrDA 2.0 update, or 2. a Nokia 6100 series phone for infrared transmission.*

2.3 IrDA settings

From *Options* tab of MS IrDA application disable Plug and Play (see Figure 1).

NOTE I: IrDA stack provides a *Virtual Infrared Port* for your applications. In case your application wants directly connect to the port use the port where application support is provided (COM4 in figure1). You see also this information in *Options* tab of MS IrDA application.

NOTE II: Some applications (like Windows 95 HyperTerminal) have some unsuitable connection parameters as default when connecting directly to the COM port with application support. Therefore using always Windows 95 modem (TAPI) is recommended.

2.4 Windows 95 Modem configuration

After proper IrDA support installation and configuration next step is to configure a new modem for Windows 95. If you have already installed PC Suite for Nokia 8210 then there is no need to add a new modem, so you can skip this part. This procedure requires a so called .INF file, which contains information about used modem. You can find that .INF file from CD-ROM or from http://www.forum.nokia.com/.
Setting up a modem in Windows 95 is a straightforward process.

1. Open *Control Panel* (*Start* | *Settings* | *Control Panel*)
2. Select *Modems*
3. Select *Add*
4. Select *Other* (and go further by selecting *Next* option…)
5. Select *Don't detect* (and go further by selecting *Next* option…)
6. Select *"Have disk…" and browse to locate the N8210.inf file.*
7. Select *Virtual Infrared Port* (and go further by selecting *Next* option…)

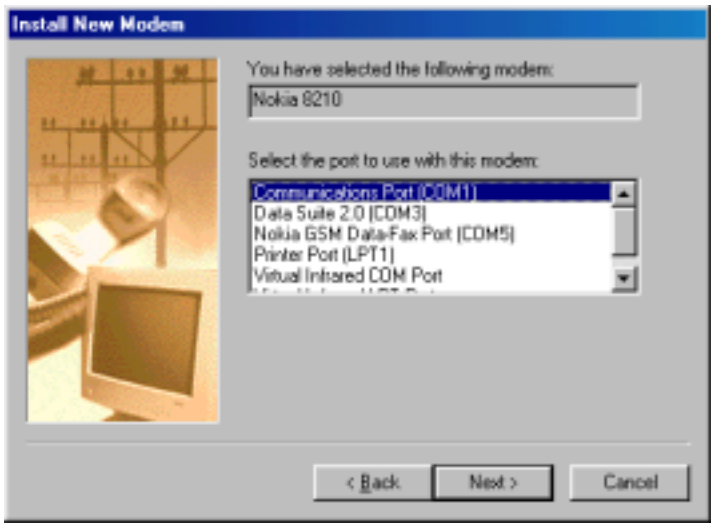

Figure 3. Port selection

8. Finish
After Windows 95 modem is properly installed you can start to use your data and fax applications in Windows 95 environment by selecting Nokia 8210 (or Nokia Data Card as) a modem.

2.5 Windows 95 dial-up connection configuration

For remote networking also a dial-up connection must be configured properly.
1. Open *Dial-Up Networking* (*Start* | *Programs* | *Accessories* | *Dial-Up Networking*)
2. Select *Make New Connection*
3. Replace 'My Connection' with appropriate name
4. Select Nokia 8210 (and go further by selecting *Next* option…)
5. Type in the desired Dial-Up number
6. Skip the *Area Code* and *Country Code*
7. *Finish*
8. Click with the right mouse button the newly configured Dial-Up Connection
9. Select *Properties*
10. Empty the ‘Use country code and area code’ selection
11. Select Server Types
12. Usually you need only "Enable software compression" and "TCP/IP" protocol
13. Check also TCP/IP settings from your internet service provider
14. Select OK

2.6 Using Windows 95 dial-up connection

Now you can use connection that you have just made.
1. Open new connection by double klicking it
2. Enter your Username and password
3. Press Connect
4. Activate infrared reception in Nokia 8210 (Press Menu – 9)

Note: if you activate infrared before you start dialing Windows may disconnect infrared connection before you get connection.

5. Now you should see active infrared connection in Taskbar and phone start dialing.
6. If you have problem that phone does not dial but give error 629 or 630 open HyperTerminal and give AT&F command. Close HyperTerminal and try to make connection with Dial-up networking, it should work now.

3. WINDOWS 98 CONFIGURATION

Windows 98 do have MS IrDA 3.0 stack included in the delivery packet. When updating Windows 95 with MS IrDA 2.0 support do remember first remove the old drivers by using “Add/Remove Programs” utility from Control Panel.
Windows 98 installation/update software should automatically detect if IR hardware is present and activated in your computer and install the required files for IrDA support. When getting a new PC with pre-installed Windows 98 it should have also IrDA properly configured if IR hardware is present.
Once IrDA support is properly installed into your computer the modem and dial-up networking settings are similar to Windows 95.

Figure 4: Windows 98 Infrared Monitor (Ms IrDA 3.0)