

EXHIBIT 3

USER MANUAL

ISDN PCI DELIVERY

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Contents

The NAF product is divided into several elements that depend on the operating system.

These elements are :

- Isdn Pci drivers (for windows NT and windows 95) with associated libraries (DLL).
- Card firmware loader with associated code files.
- Isdn Pci Development Kit and some documentation (user-manual,...).
- Transfile for Isdn Pci Version 2.2 (a data transfer demonstration).
- Server30 for Isdn Pci Version 2.0 (a vocal server demonstration) (delivered only with a vocal daughter board)

Remark : When you have installed a new Isdn Pci card you are advised to validate the installation by running Transfile 2.2.

1. Driver declaration and configuration for Windows 95

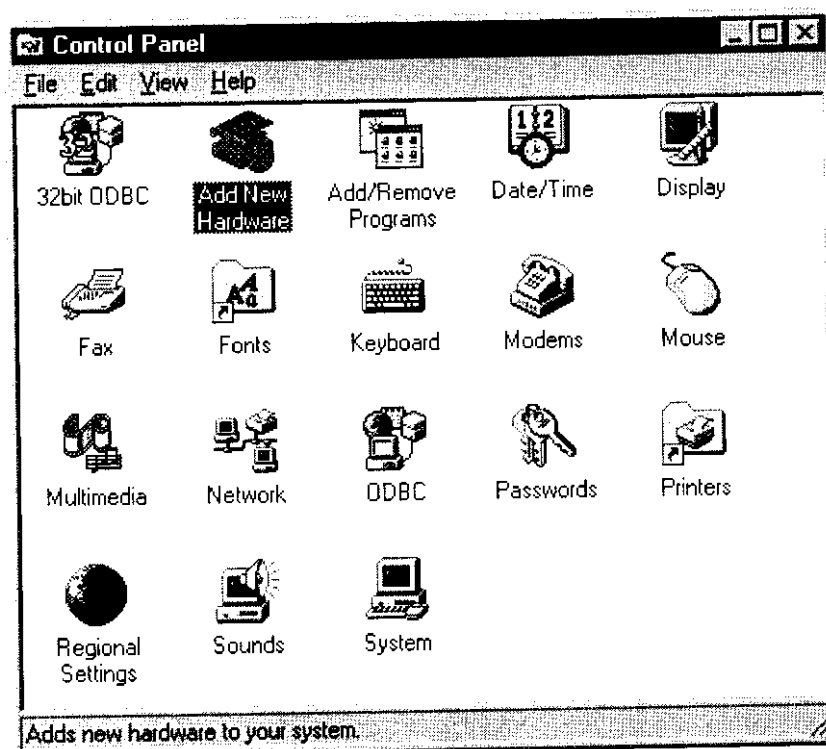
1.1 Driver declaration

1.1.1 For non plug & play cards

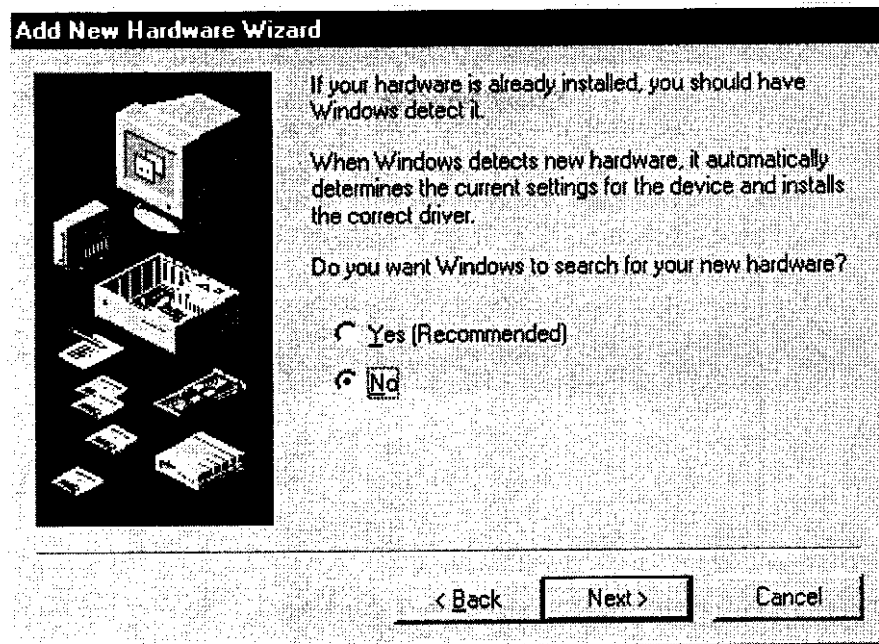
The first stage consists of installing a new card. For a non plug & play (ISA) card, choose **Add New Hardware** from the Start/Setting/Control_Panel menu.

1.1.2 For plug & play cards

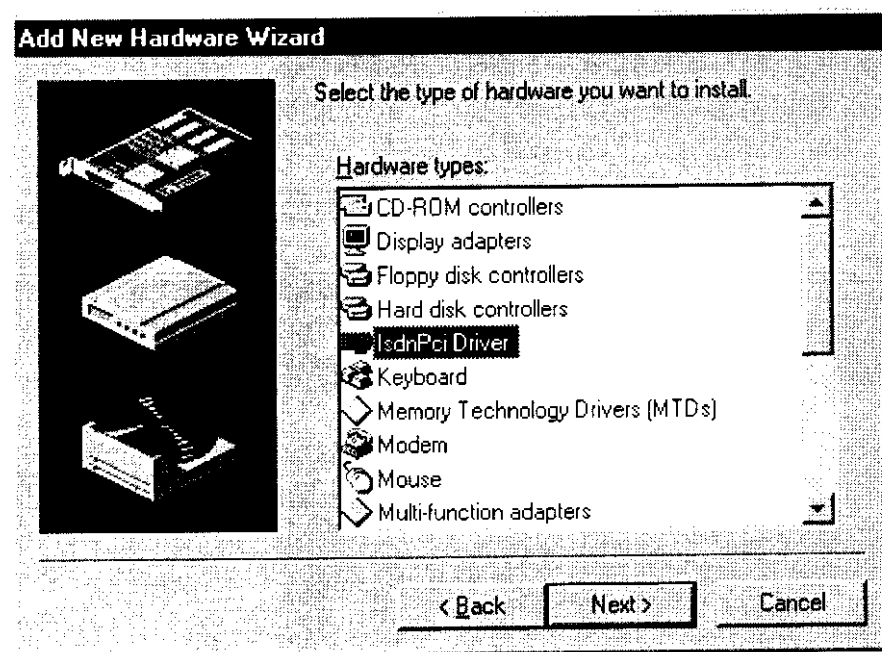
For a Plug&Play card (PCI, ISA P&P or PCMCIA), this stage is automatically done.



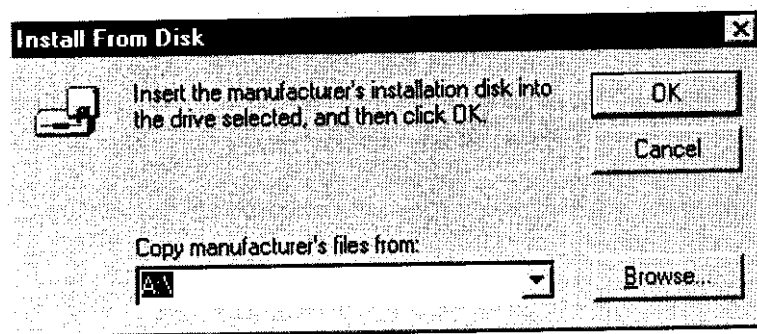
Click **NO** when Windows wants to search for your new hardware, then **Next**.



Choose ISdnPciDriver to allow the addition (or the removal) of an ISDN card. If the **IsdnPciDriver** choice does not appear, choose **Other Device**, **IsdnPciDriver** will then appear.

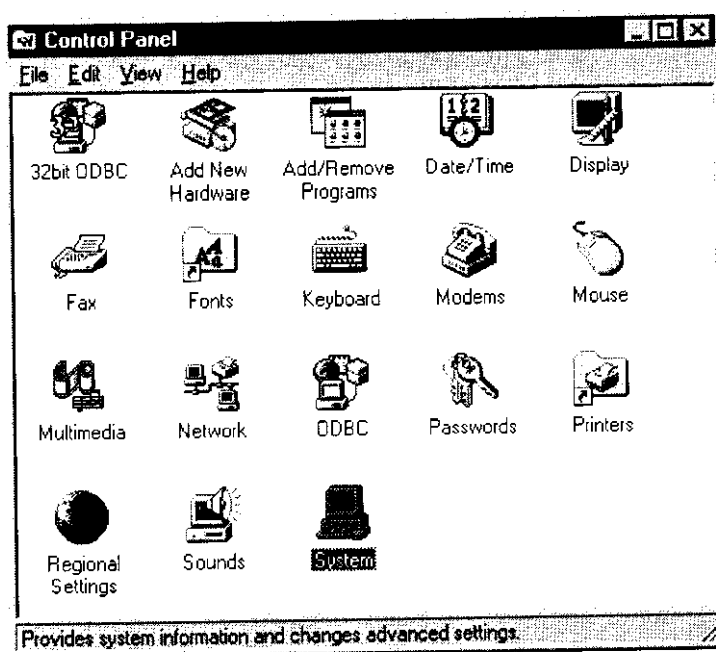


The following menu appears. Select **Have disk** (supplied floppy disk), then insert the floppy disk. The configuration program copies the requested software and registers the requested information. For non Plug & Play cards (DataVoice ISA, MegaSpeed 4S0 or MegaSpeed S2 or Expresso ISA), please configure the card from the **System** icon from **Control Panel**.



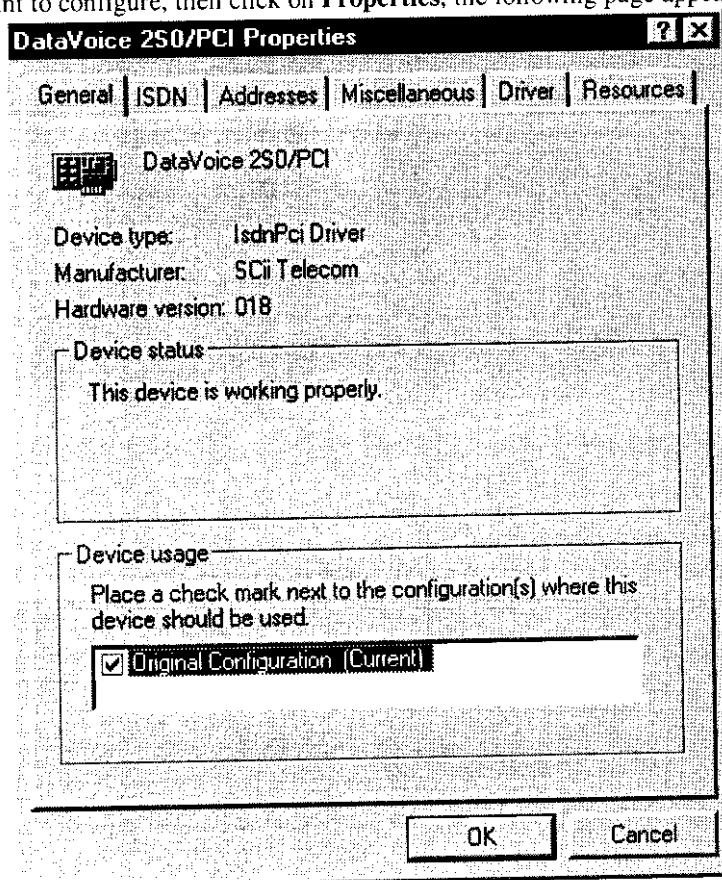
1.2 Driver configuration

The **system** icon allows the configuration of the ISDN-PCI driver by using device manager.



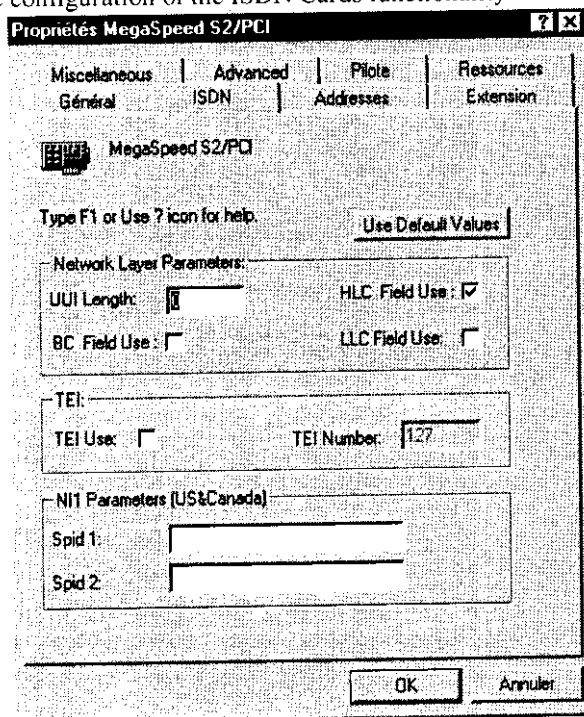
The configuration is done by clicking on **Device Manager**. Each card must be validated.

Select the card you want to configure, then click on **Properties**, the following page appears:



Help is supplied for the user. This help can be activated either by using the **F1** key or the  icon that you drag on the field you want to know more about.

This dialogue box allows the configuration of the ISDN Cards functionality.



- The **Use Default Values** choice allows the default configuration : UUI length = 0, TEI not used.
- **Address** defines the ISDN addresses that are managed.
- **Local Address** permits the definition of the local address of the ISDN access that will be sent for each call request (mandatory for some PABXs).
- **Address x** and **Sub Address x** define the addresses (and sub-addresses) that will be accepted by incoming calls. When only one address is configured, the incoming calls that will be presented successfully will be the ones that have been defined. If every address field is empty, every call will be sent to the application.

Propriétés MegaSpeed S2/PCI

Miscellaneous | Advanced | Pilote | Ressources
Général | ISDN | Adresses | Extension

MegaSpeed S2/PCI

Use Default Values

ISDN Parameters

Local Address: 3639

Local Sub Address:

Address 1: Sub Address 1:
Address 2: Sub Address 2:
Address 3: Sub Address 3:

OK Annuler

The **Advanced** menu (only for MegaSpeed S2 PCI card) allows the internal configuration card by the driver.

Propriétés MegaSpeed S2/PCI

Général | ISDN | Adresses | Extension
Miscellaneous | Advanced | Pilote | Ressources

MegaSpeed S2/PCI

Use Default Values

☒ Enable V24

Hardware properties

Isdn Access Number: 1 Dsp on card: ☒

Layer 1 Parameters

Isdn Card Type: TE Use CRC4: ☒

Isdn Access Type: E2

Layer 2 Parameters

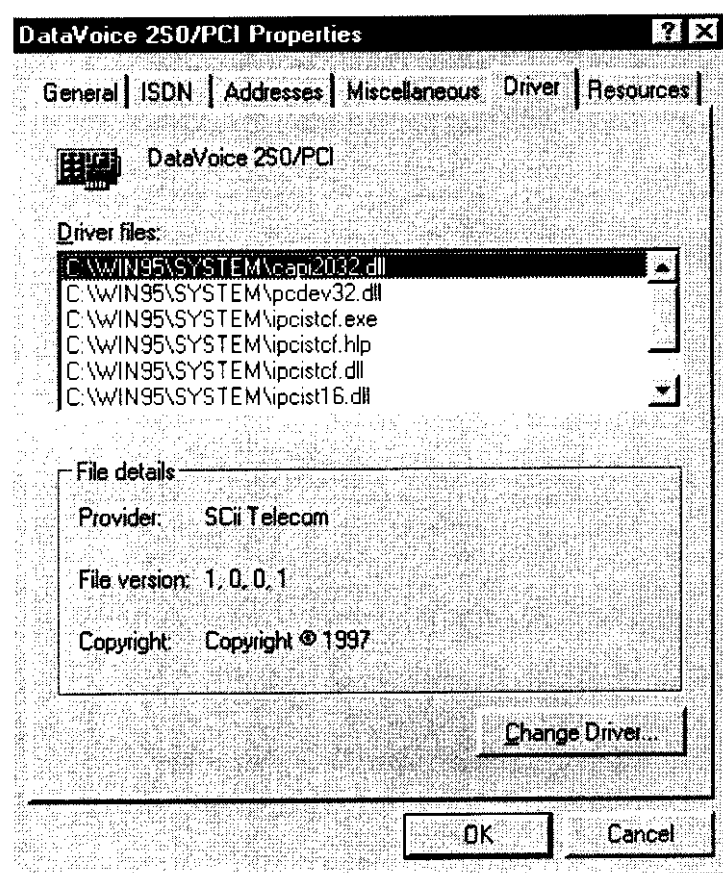
LAPD status: USER

Layer 3 Parameters

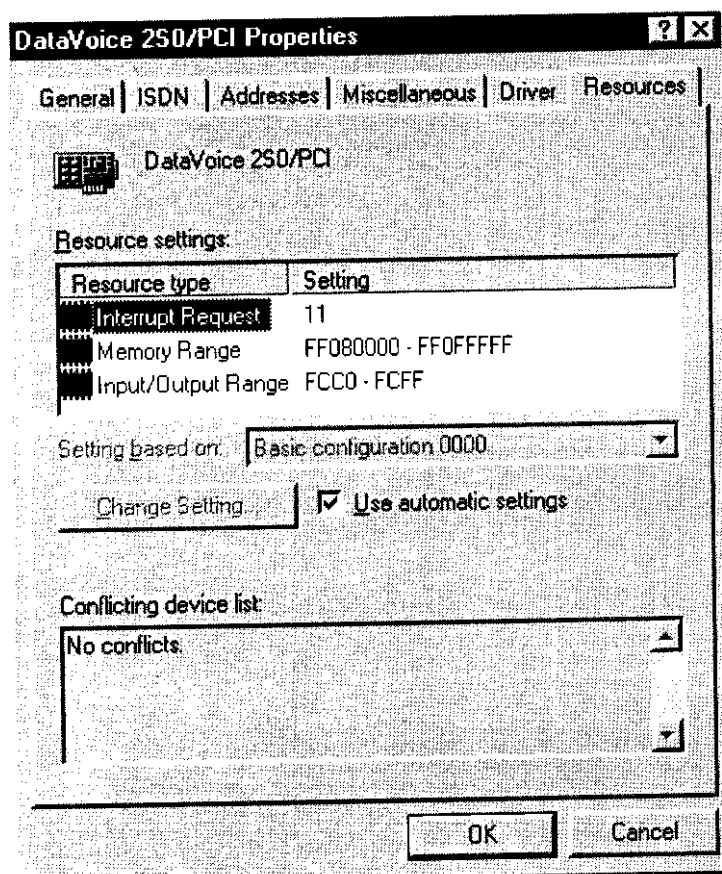
Version: ETSI

OK Annuler

The **Driver** (pilote in french) option indicates the list of files that are used:



The **resources** option indicates the hardware configuration of the non Plug & Play cards. An IO address and one interruption must be configured for the cards (8 addresses running). The system offers values that have to be in accordance with the card configuration.



For a MegaSpeed S2PCI 2 Megabytes of dynamic memory , 64 address of I/O and one Irq are used.
For others card , only I/O address and one Irq are required.

The **Extension** option permits the configuration of MVIP and PCM bus for the MegaSpeed cards.
For MegaSpeed S2PCI the fields **Clock_Priority** and **clock_group** are not used.

Propriétés MegaSpeed S2/PCI [?] [X]

Miscellaneous | Advanced | Pilote | Ressources
 Général | ISDN | Adresses | Extension

 MegaSpeed S2/PCI

Clock Priority: [Use Default Values](#)
 Clock Group:

PCM Bus : output setting

PCM0: ☐	PCM2: ☐	PCM4: ☐
PCM1: ☐	PCM3: ☐	PCM5: ☐

MVIP Bus : output setting

MVIP0: ☐	MVIP2: ☐
MVIP1: ☐	MVIP3: ☐

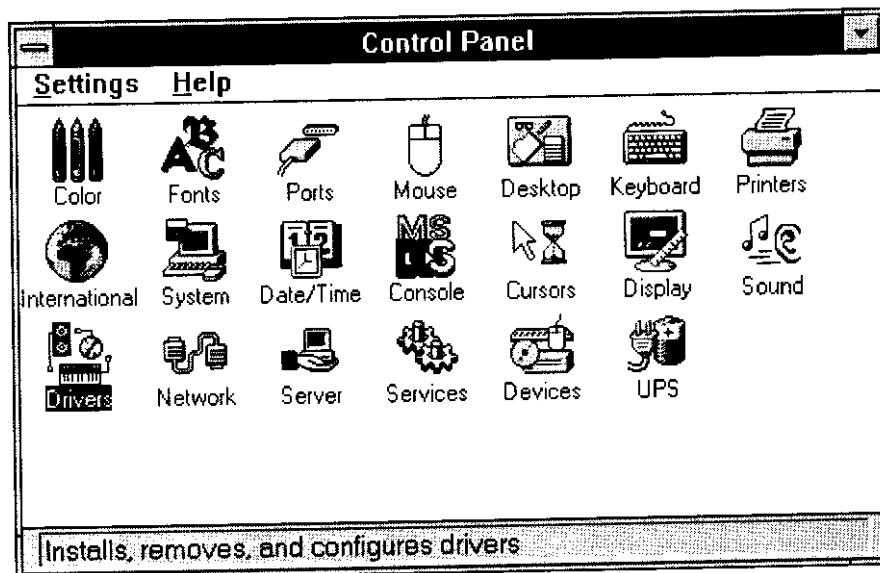
2. Driver declaration and configuration for Windows NT

2.1 Driver declaration

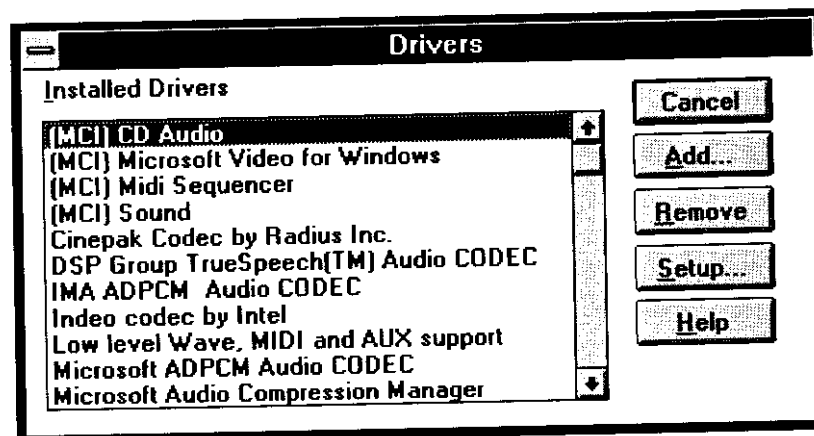
2.1.1 Driver declaration for Windows NT 3.51

The configuration for Windows NT is approximately the same as Windows 95 but declaration change. For Windows NT, you must install the ISDN-PCI driver before adding and configuring the communication cards.

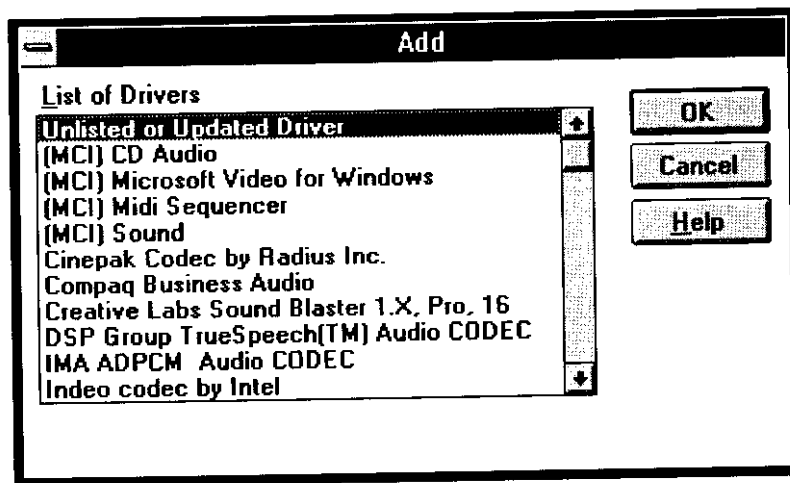
The first stage consists in installing a new driver by choosing **Drivers** from the Control Panel.



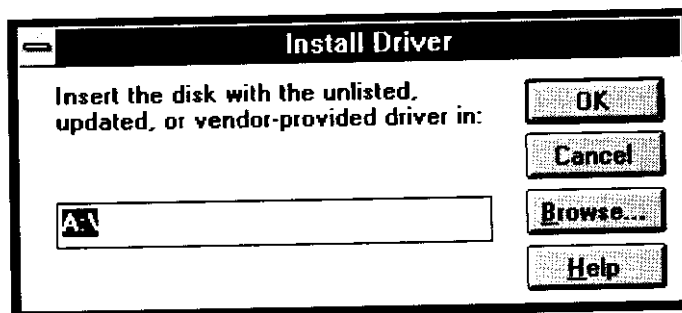
A list of all drivers that have been installed, appears. If the **IsdnPciDriver** does not appear, click on the **ADD** button to install a new driver. The program will ask you to insert the appropriate floppy disk. When this is done, select the card. **IsdnPciDriver** will then appear and will allow further additions and configurations..



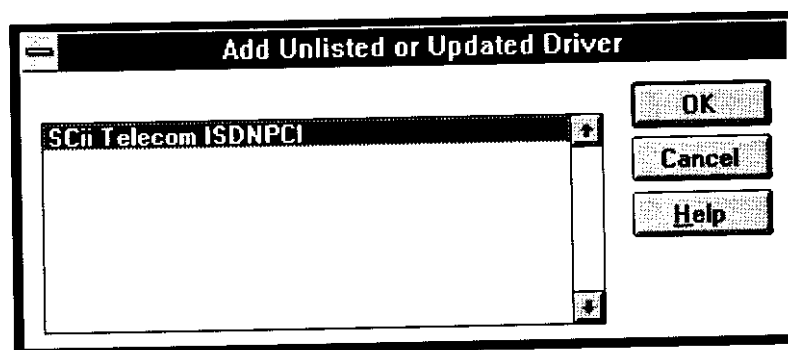
Choose **Unlisted or Updated Driver** list.



The following menu appears. Insert the supplied floppy disk and click **OK**.



The configuration program copies the software and registers the requested information.



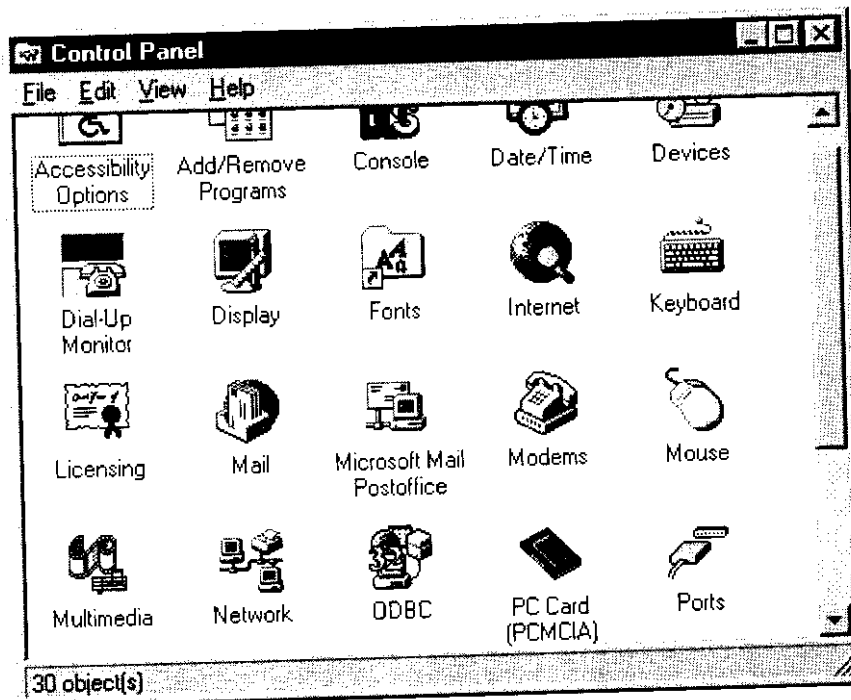
When the driver is installed, the configuration menu of the driver appears you can then install and configure the cards for Windows NT. (*see configuration*)

2.1.2 Driver declaration for Windows NT 4.00

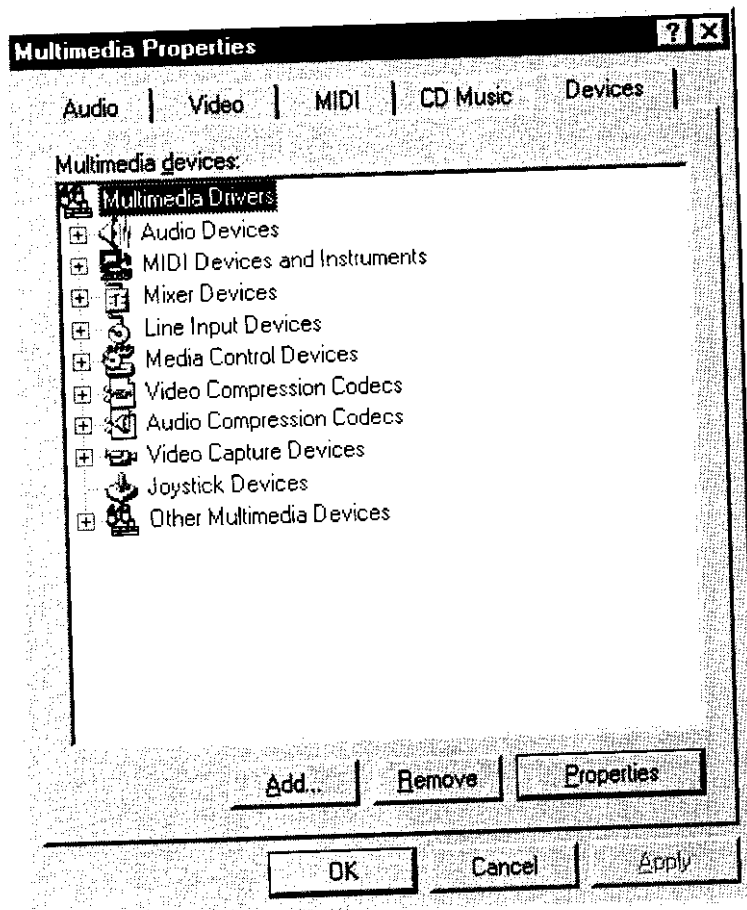
The configuration for Windows NT is approximately the same as Windows NT 3.51.

For Windows NT, you must install the ISDN-PCI driver before adding and configuring the communication cards.

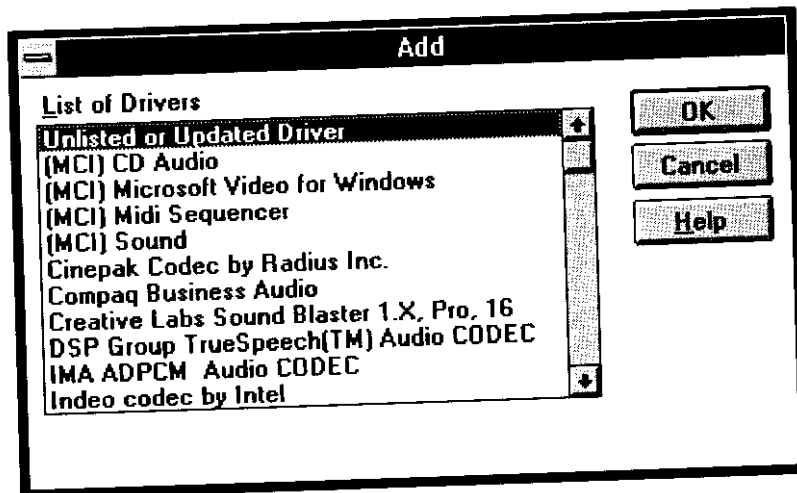
The first stage consists in installing a new driver by choosing **MutiMedia** from the Control Panel « panneau de configuration » in french)



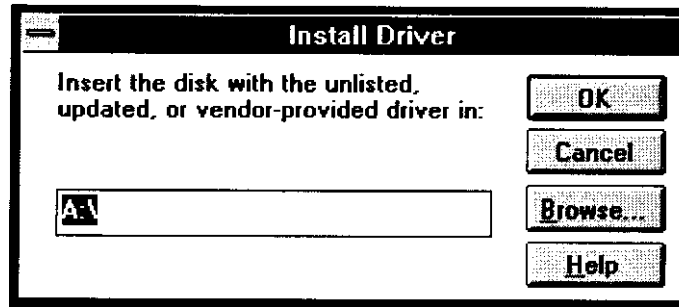
A list of all drivers that have been installed, appears when you select the Devices (Périphériques in French) property sheet. As stated in paragraph 2.1.1., If the **IsdnPciDriver** does not appear, click on the **ADD** button to install a new driver. The program will ask you to insert the appropriate floppy disk. When this is done, select the card. **IsdnPciDriver** will then appear and will allow further additions and configurations..



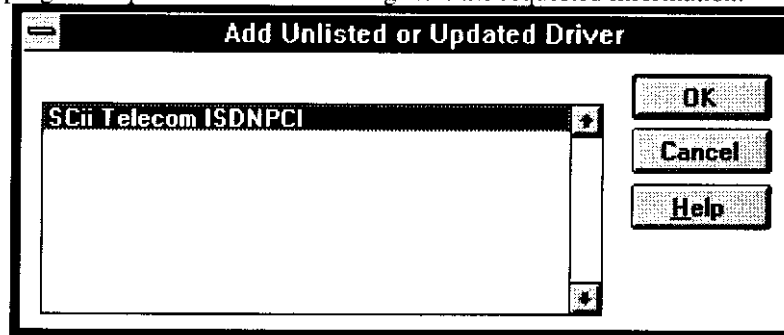
Choose Unlisted or Updated Driver list.



The following menu appears. Insert the supplied floppy disk and click **OK**.



The configuration program copies the software and registers the requested information.



When the driver is installed, the configuration menu of the driver appears you can then install and configure the cards for Windows NT. (*see configuration*)

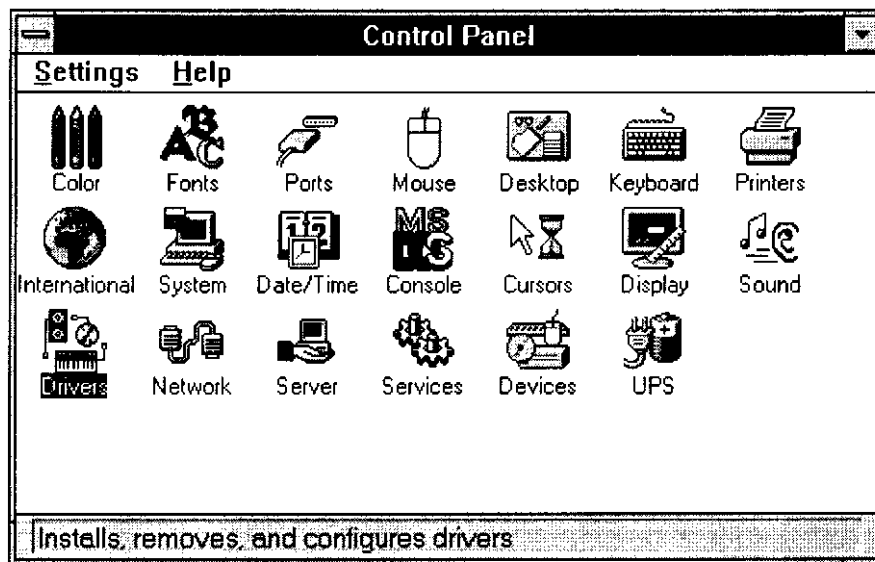
2.2 Driver configuration

The configuration is approximately the same for windows 3.51 and 4.0.
Only one stage changes, as follows :

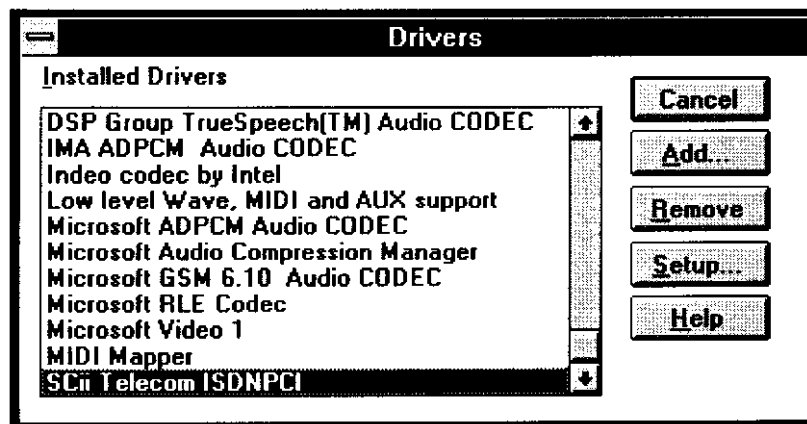
- Use control panel / driver for 3.51
- -Use control panel / multimedia for 4.0

2.2.1 First stage for 3.51

The **Drivers** choice allows the configuration of the ISDN-PCI driver : add a new card, remove or configure a card that has been installed.



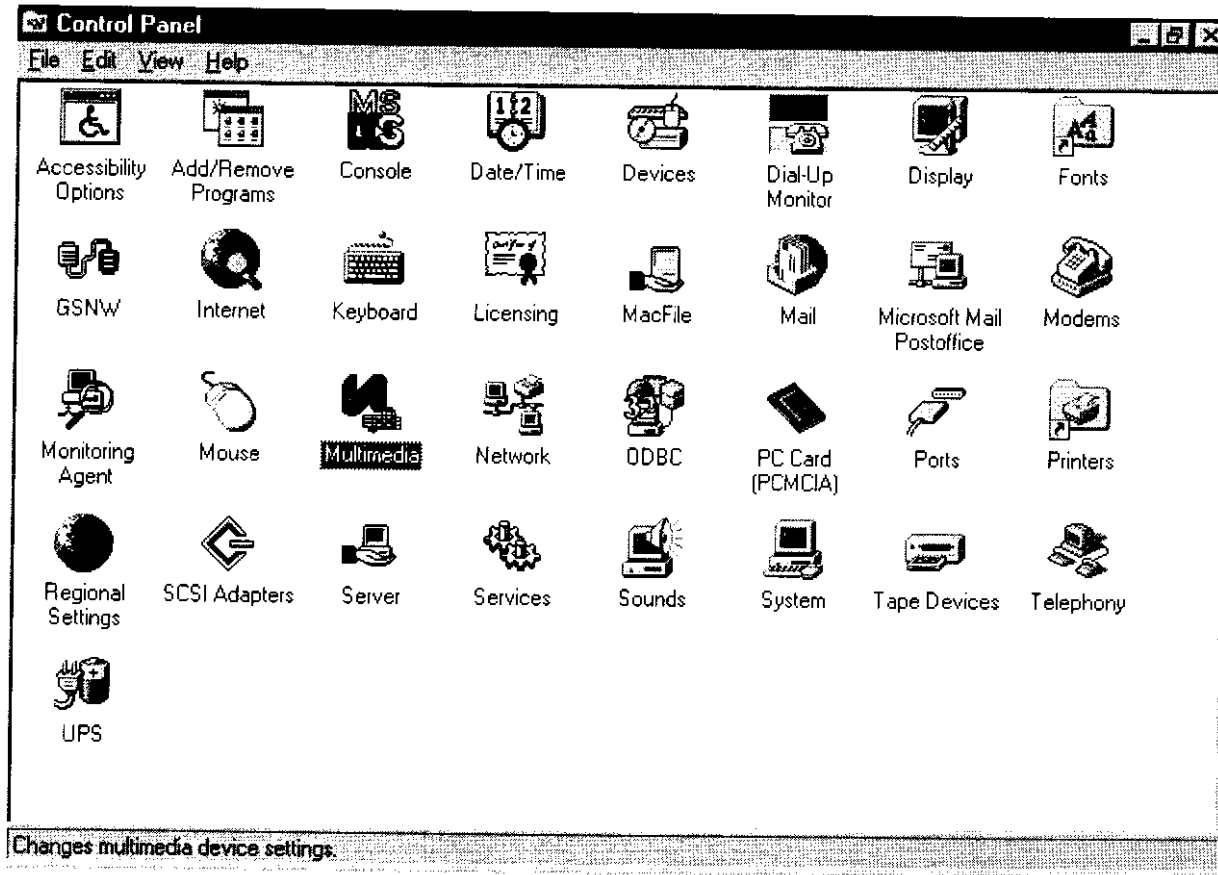
Select the **ISDN PCI driver** in the drivers list that have been installed, then click on **Setup**.



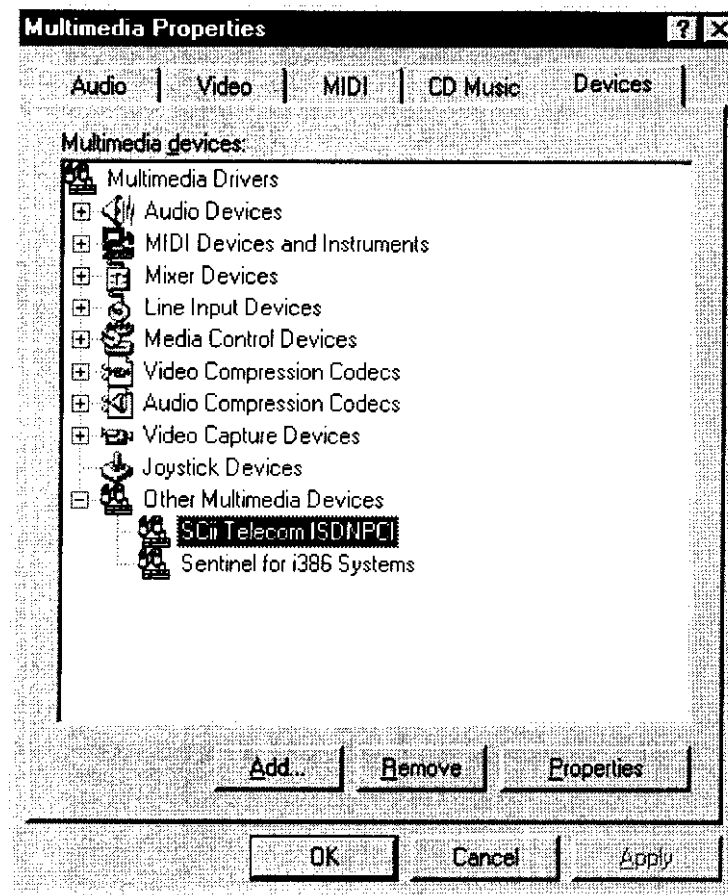
The list of all ISDN cards that have been installed appears.

2.2.2 First stage for 4.0

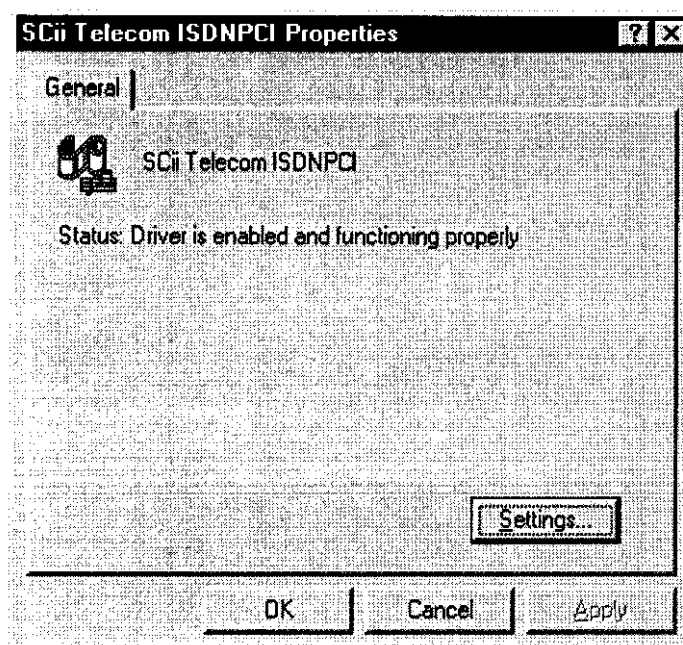
- Select multi media in the control panel



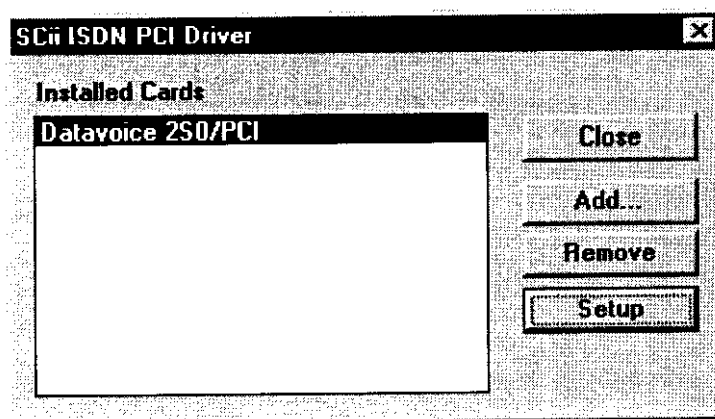
Then select SCii Telecom ISDN PCI



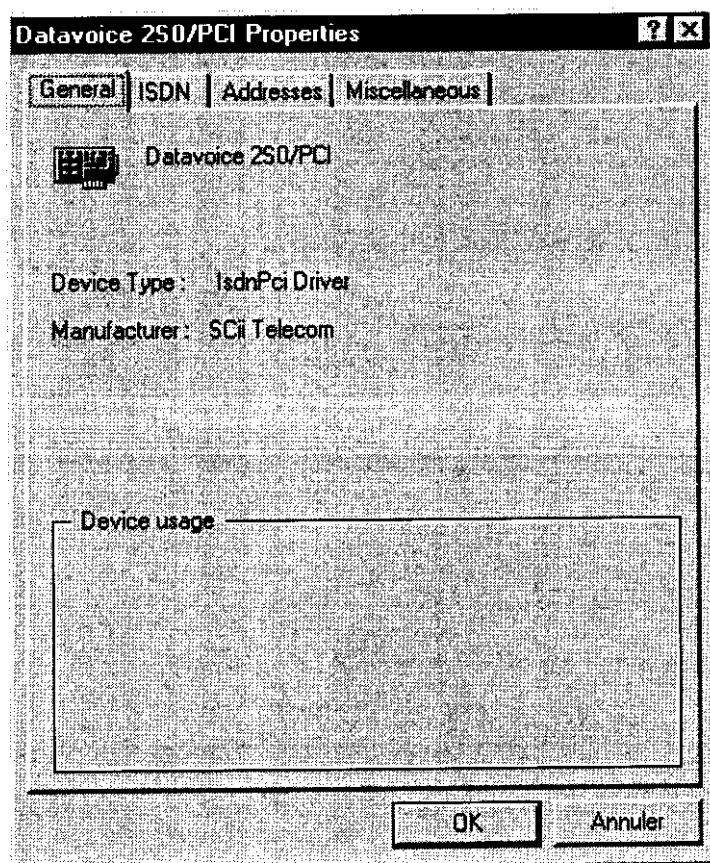
Here select Configuration



2.3 Common part of the configuration for 3.51 and 4.0



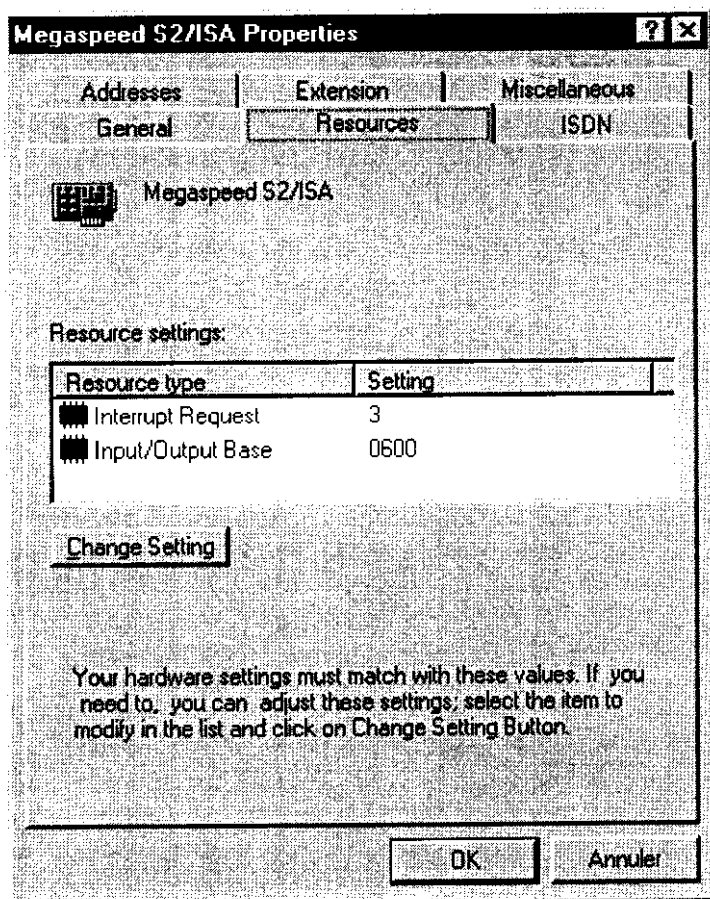
Select the card that must be configured, then click on Setup (configuration), the following page appears :



Help is supplied for the user. This help can be activated either by using the **F1** key or the  icon that you drag on the field you want to know more about.

The **ISDN** option allows the configuration of the ISDN functions of the cards.

The **resources** choice permits the hardware configuration of the non Plug & Play cards. An IO address and one interrupt must be configured for the cards (8 addresses supported). The system offers values that have to be in accordance with the card configuration.



The ISDN option configures the ISDN functions of the cards.

Megaspeed S2/ISA Properties [?] [X]

Addresses	Extension	Miscellaneous
General	Resources	ISDN

 Megaspeed S2/ISA

Type F1 or Use ? icon for help. **Use Default Values**

Network Layer Parameters:

UUI Length: 0	HLC Field Use: ☒
BC Field Use: ☐	LLC Field Use: ☐

TEI:

TEI Use: ☐	TEI Number: 127
-----------------------------------	--

N11 Parameters (US&Canada)

Spid 1:
Spid 2:

Use Default Values allows the default configuration like UUI length = 0 and TEI not used.
The **Address** choice allows the definition of the ISDN addresses that are managed.

Megaspeed S2/ISA Properties [?] [X]

General	Resources	ISDN
Addresses	Extension	Miscellaneous

 Megaspeed S2/ISA

[Use Default Values](#)

ISDN Parameters

Local Address:

Local Sub Address:

Address 1:		Sub Address 1:	
Address 2:		Sub Address 2:	
Address 3:		Sub Address 3:	

Local Address defines the local address of the ISDN access that will be sent for each call request (mandatory for some PABX).

Address x and **Sub Address x** define the addresses (and sub-addresses) that will be accepted by incoming calls. When only one address is configured, the incoming calls that will be presented successfully will be the ones that have been defined. If every address is empty, every call will be sent to the application.

The **Advanced** menu allows the configuration of low level of the NAF driver. These parameters are usually the default ones (see windows 95 configuration).

3. NAF Configuration.

The NAF (Network Access Facility) indicates the driver in the Windows sense. The PUF (Programming communication interface facility) indicates the application itself.

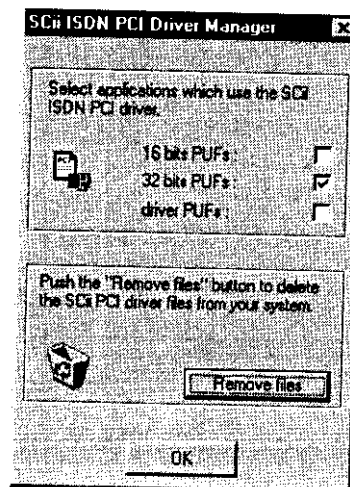
3.1 IPCISTCF SOFTWARE

The software IPCISTCF.EXE is used for Windows 95 and windows NT systems, it allows :

- To activate the NAF (in ISDN PCI way)
- To desactivate the NAF
- To uninstall the driver (registry, software, drivers, DLL).

The **IPCISTCF.EXE** configuration program is placed in the windows system directory (\system\Windows usually).

When the application is launched , a window appears. It offers the installation or the removal of the NAF and also the removal of all files required by Isdn Pci driver.



3.2 Configuration for 16 bit mode

The use of the ISDN-PCI NAF by 16 bit applications requires a PCI.INI file (Win 95 only). This file is placed in the system directory of Windows (as a general rule, the WINDOWS\SYSTEM directory). It contains a section named DRIVERS that contains the name of the access DLL.

To allow dynamic use of this file, a configuration program is supplied. The configuration program allows the NAF to be declared, or desinstalled. The necessary checks are made to ensure the new configuration is good. NAF functions like :

- one creation of NAF of SCii only.
- 32 NAFS maximum.

The **Enable** option permits the addition of the driver in the PCI.INI file.

The **Disable** option removes the driver in the PCI.INI file.

A message indicates the validity of the request.

The PCI.INI file contains a registration such as :

```
[DRIVERS]
pciDriver1=\windows\system\IPCIST16.dll
```

3.3 Configuration for 32 bit mode

For 32 bit mode configuration is made with registry management.

Enable option permits to update the registry key :

HKEY_LOCAL_MACHINE\SOFTWARE\PCI\DeviceDrivers\PCIdriver1 = IPCIST or VIPCISTD.VXD

HKEY_LOCAL_MACHINE\SOFTWARE\PCI\Drivers\PCIdriver1= IPCIST32.DLL

In the "SCii ISDN PCI Driver Manager" window, such alternatives as **32 bits PUFs** and **driver PUFs** mean that they respectively activate the application in modes Users and Kernel.

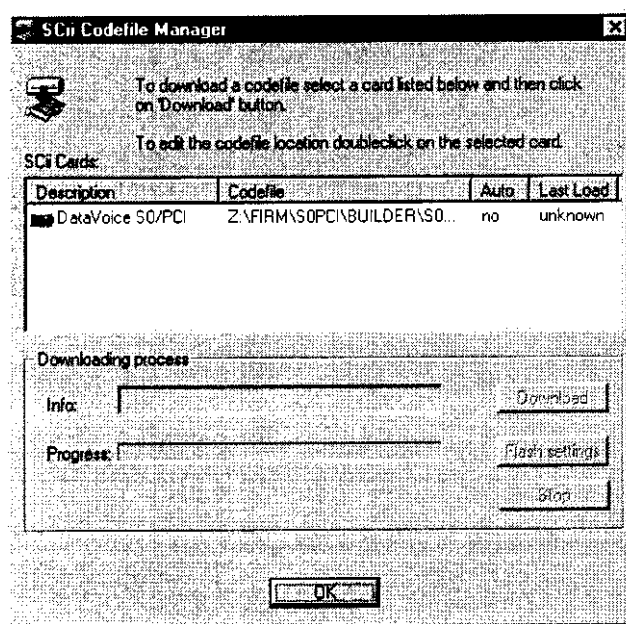
4. Loader utility.

The loader utility IPCILOAD.EXE is used to download the firmware of Isdn cards.

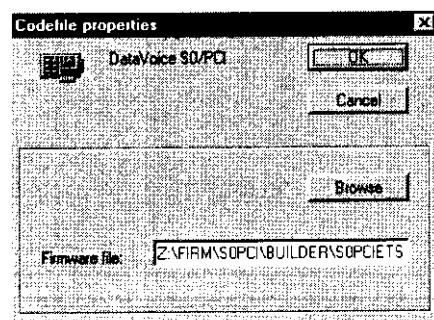
For the ISA cards the utility is mandatory before to start an application because the Isdn firmware is placed in Ram Memory. For the PCI cards the firmware is placed in FLASH memory, and the loader utility is used only for a new version.

Installation use **InstallShield** software : **Install** of the first floppy Disk.
The Default group files is **SCII**.

Use of loader utility is possible only if the driver is installed.
When Loader utility start the following windows appears :



The configuration of loader is mandatory for each cards.
A « **double click** » permits to have the following windows.



You have to select the name of codefile (with MPX extension) and click on **Download**
For cards with ISA bus, it's possible to select automatic mode.
For Megasppeed S2PCI cards the **Flash_Setting** option permits to download the configuration (recorded in registry in advanced and extension option) on the board. You have to select the Dsp file (downloaded in the flash memory of the card).

If you start IPCILOAD with AUTO parameter (>IPciLoad /AUTO) the configured ISA cards are downloaded.
For example you put it in the **Startup group** to avoid an operating action.

5. Demonstration application

5.1 Transfile application.

The demonstration application allows files transfer and phone calls. The requested files (Makefile, sources , resources,...) for VISUAL C++ version 4 are supplied and allow the developers to easily understand the use of ISDN-PCI.

Installation use **InstallShield** software : **Install** of the first floppy Disk.

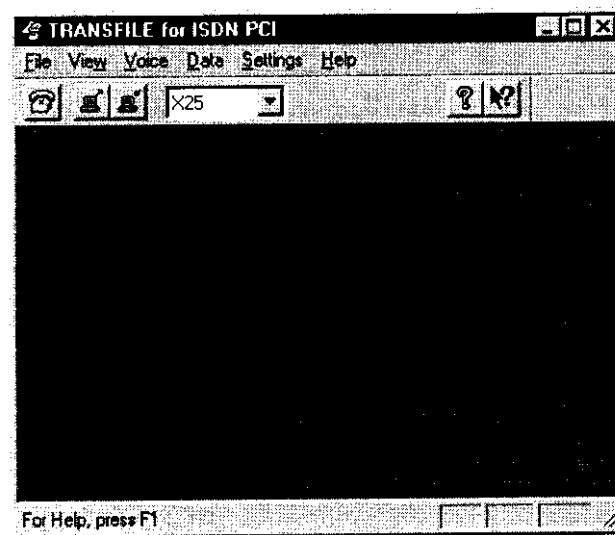
The Default group files is **SCII**.

The options **Typical** and **compact** are used only to install the softwares.

For developers the option **Customs** permits also the copy of the source files.

Pop-up menus are supplied and allow a simple demonstration of the application.

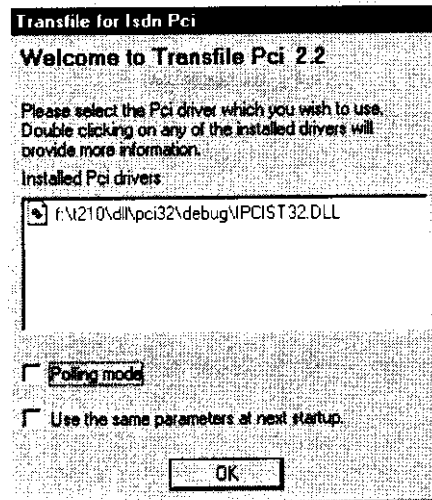
The following window appears :



First of all, the software must be initialised; it interrogates the system to know the ISDN-PCI NAFs that have been installed. This is achieved by using the **PciGetHandles** function.

The different NAFs appear on the screen as well as their properties. The NAF version can be consulted as well as the information regarding the number of B channels managed by the NAF.

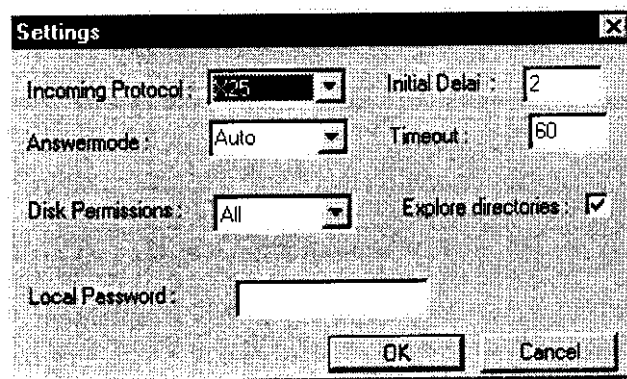
The following window appears :



Select the option you want , click on **OK** and **Transfile for ISDN PCI** will appear

The **Setting** choice in the menu permits the configuration of the application.

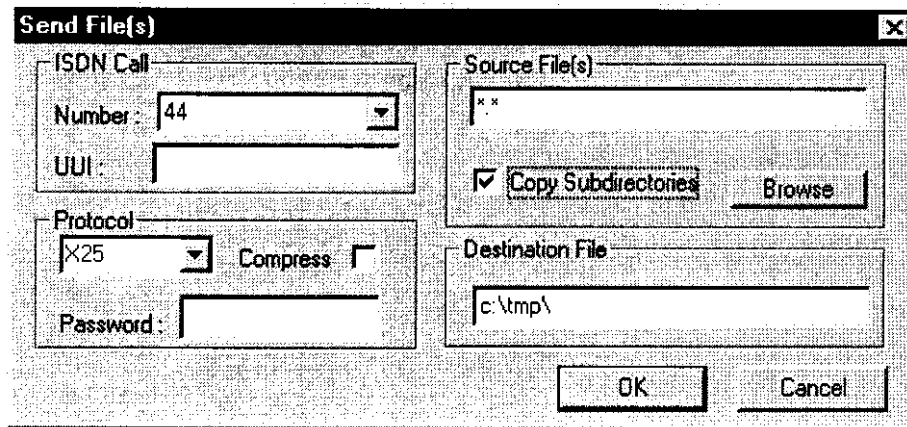
- **Incoming Protocol** indicates the chosen protocol for files transfers from incoming calls.
- **AnswerMode** defines the off-hook mode of the application for incoming calls for digital communications (voice communications require a response from the user).
- **DiskPermissions** defines the access permissions of the remote application.
- **Explore Directories** obtain information on the directories of the remote site.
- **Local Password** defines a local password (it will have to be known by the call initiator).
- **Initial Delay** (in second) determines the necessary time to obtain the transparency on the network (in Transparent mode only).
- **Timeout** determines the waiting length that can be admissible between 2 data.buffers.



The **Data** choice permits files transfer requests.

The **Send** or **Receive** choice determines the transfer direction.

A chart appears :

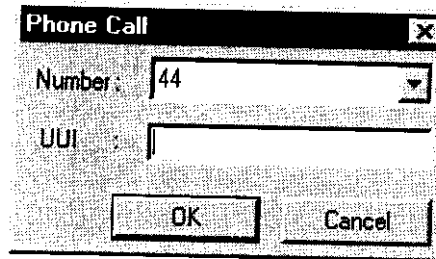


The image shows a Windows-style dialog box titled "Send File(s)". It is divided into several sections. On the left, under "ISDN Call", there is a "Number:" field with "44" and a dropdown arrow, and an empty "UUI:" field. Below that, under "Protocol", there is a dropdown menu showing "X25", a "Compress" checkbox which is checked, and an empty "Password:" field. On the right, under "Source File(s)", there is a text field containing "x*", a checked "Copy Subdirectories" checkbox, and a "Browse" button. Below that, under "Destination File", there is a text field containing "c:\tmp\". At the bottom right are "OK" and "Cancel" buttons.

- **Number** indicates the requested ISDN number (one '*' character permits the request of a sub-address).
- **UUI** allows the sending of a mini-message to the remote site (UUI: User To User Information). Not valid in X25 mode.
- **Protocol** determines the low level protocol (X25 or HDLC Transparent).
- **Compress** permits the sending of the data in compress mode.
- **Password** is used to send a password (the remote site has positioned its password in the "Setting" menu).
- **Source File(s)** permits the definition of the source(s) file(s) name, that is to say the ones that will be read on the disk and sent.
- **Copy Subdirectories** indicates that every file from the directory and subdirectory to be sent, will be sent.
- **Browse** permits the selection of files to send.
- **Destination file** permits the definition of the files that will be received. When the last character of a field is '\', the field indicates the name of a directory.

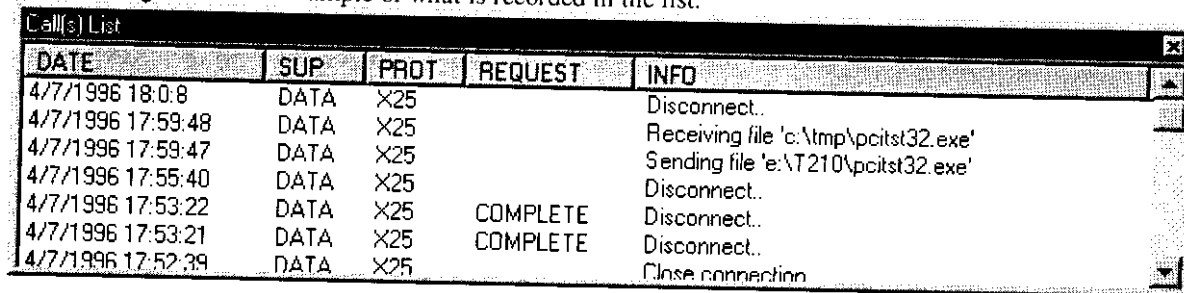
Phone call.

The **Voice** choice allows a phone call to be made. The following menu appears.



A dialog box titled "Phone Call" with a close button (X) in the top right corner. It contains two input fields: "Number:" with a dropdown menu showing "44", and "URI:" with an empty text box. At the bottom are "OK" and "Cancel" buttons.

The call log can be consulted at any time by clicking on **View** and then on **Connections list**. The following chart is an example of what is recorded in the list.



A window titled "Call(s) List" containing a table with the following data:

DATE	SUP	PROT	REQUEST	INFO
4/7/1996 18:0:8	DATA	X25		Disconnect..
4/7/1996 17:59:48	DATA	X25		Receiving file 'c:\tmp\pcitst32.exe'
4/7/1996 17:59:47	DATA	X25		Sending file 'e:\T210\pcitst32.exe'
4/7/1996 17:55:40	DATA	X25		Disconnect..
4/7/1996 17:53:22	DATA	X25	COMPLETE	Disconnect..
4/7/1996 17:53:21	DATA	X25	COMPLETE	Disconnect..
4/7/1996 17:52:39	DATA	X25		Close connection

5.2 Voice Server application.

This application is used with MegaSpeed cards. It shows the capability of voice server capability :

- Play a file
- Record a file
- DTMF detection

The number of channels depends of the card type :

- with 4S0 card 8 channels are managed, 30VV card is required.
- with S2 ISA cards 30 channels are managed, 30VV card is required .
- with S2 PCI cards 30 channels are managed by the card, no 30vv card is required.

Installation use **InstallShield** software : **Install** of the first floppy Disk.

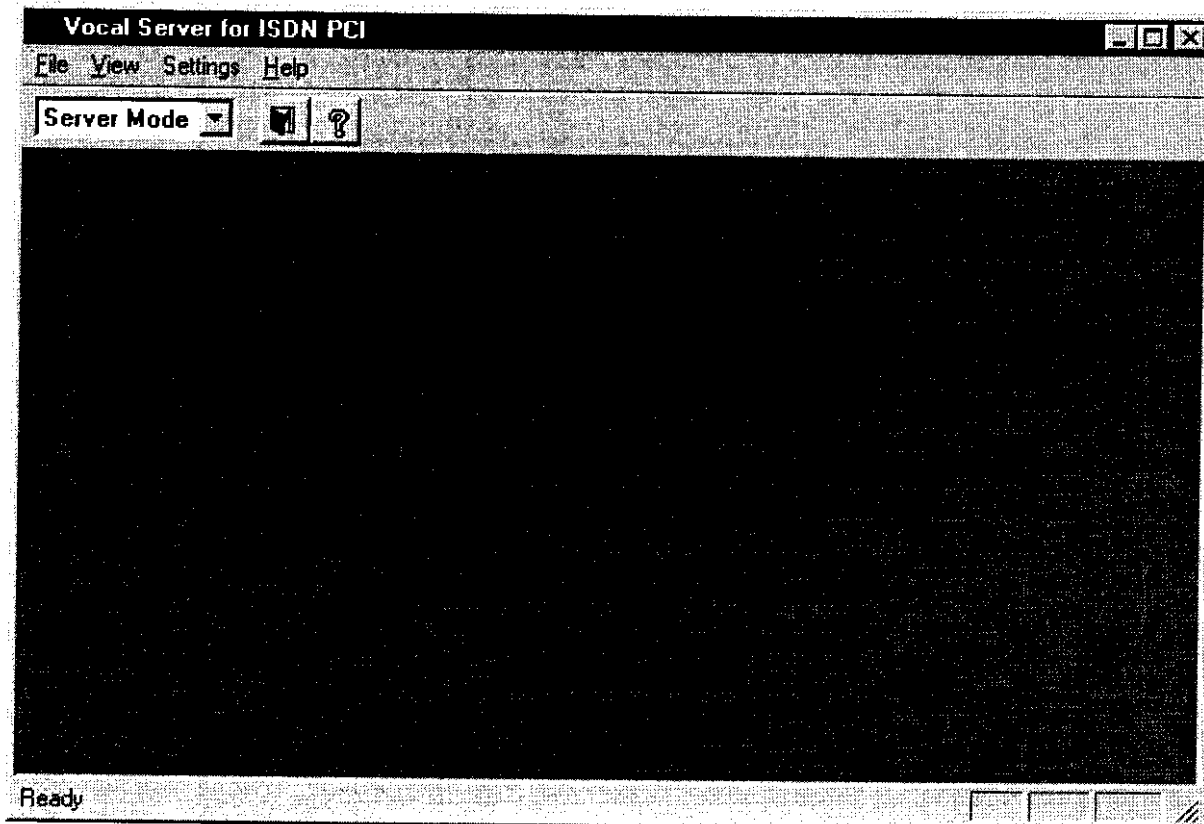
The Default group files is **SCII**.

The options **Typical** and **compact** are used only to install the softwares.

For developers the option **Customs** permits also the copy of the source files.

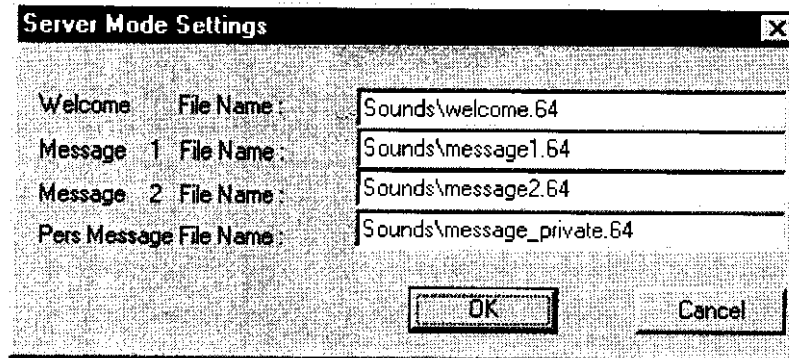
Pop-up menus are supplied and allow a simple demonstration of the application.

The following window appears :



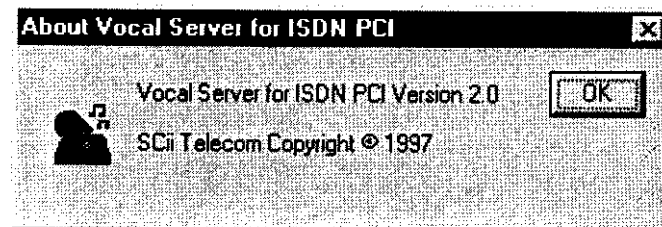
The Setting option allows to configure the files :

- **Welcome file** is played at the connection.
- **Message 1** file is played after the detection of DTMF '1'
- **Message 2** file is played after the detection of DTMF '2'
- **Pers Message** is the recorded file after detection of DTMF ' #' or the played file after detection of DTMF '*' at the next connection.



For each connection a window appears where every event is displayed (DTMF, file names, disconnection).

The HELP option shows the current version of the software.



6. ISDN PCI Development Kit

The Isdn Pci Development Kit allows developers to build their new communication applications by using Isdn Pci drivers.

The Isdn Pci Development Kit contains :

- include and library files are required to use the Isdn Pci 16 and 32 bits dlls.
- help file IPciDK.HLP is a brief description (in French) of the Isdn Pci Development Kit.
- documentation files witch describe the Isdn Pci Api, the drivers installation ..

Installation use **InstallShield** software : **Install** of the floppy Disk.

QUICKGUIDE TO INSTALL THE SOFTWARE FOR THE 2S0 ISDN CARD ON WINDOWS 95

1 - Install the 2S0 card in your PC

Restart your PC and Win95 will detect a new hardware : insert the « **ISDN PCI Driver for Windows 95** » disk and install the new hardware drivers from the floppy drive.

2 - Insert the TRANSFILE For ISDN PCI Disk 1/2

Click on **Start >>Run** and enter **a:\SETUP** : this will begin the installation of the application TRANSFILE and you will be asked to insert the « **TRANSFILE For ISDN PCI Disk 2/2** » to finish the installation.

3 - To start tests

Click on **Start>>Programs>>SCii>>Transfile for Isdn Pci**. A « **Transfile for Isdn Pci** » windows appears. Check « **Use the same parameters at next startup** » and click on **OK** for the next time you will load TRANSFILE. Your application is now ready to work.

4 - To change or check the 2S0 card settings

Click on **Start>>Settings>>Control Panel**. Double-click on **System** and choose **Device Manager>>Isdn Pci Driver >>Datavoice 2S0/PCI** to change or check the card configuration.

5 - To download again the National ISDN 1 software on the 2S0 card

Insert the « **Loader for ISDN PCI NAF for Windows 95/NT Disk 1/1** » and click on **Start >>Run** and enter **a:\SETUP** : this will begin the installation of the ISDN card loader.

Insert the « **ISDN PCI Codefile – PCI 2S0 Datavoice card NI1 version - Disk 1/1** » and copy the 2S0all.mpx file from it to your « **program file\scii\codefile** » directory.

Click on **Start>>Programs>>SCii>>ISDN PCI Card Loader**.

Double-click on **Datavoice 2S0/PCI** in the **Firmware File** window, select the codefile you want to load (2s0usa.mpx) and click on **OK**.

Click on **Download** and wait for the « **card started !** » message in the **Info** window. The card is then ready to work again.