

Instructions for Installing Drivers and Establishing Internet Access (CAPI/TAPI)

**USB Driver
CAPI-2.0 Driver
TAPI Driver
NDIS-WAN Driver
CoNDIS-WAN Driver**



Information on this Instruction

General information: Information on the Auerswald USB devices and their operation can be found in the corresponding user manuals. They are located on the Auerswald Mega Disk included in the package under Manuals.

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Table of Contents

Information on this Instruction	2
Important Information	5
Proper Use	5
Safety Information	6
Windows 2000	8
Installing the USB driver.....	8
Installing the TAPI, CAPI-2.0 and NDIS-WAN drivers	11
Setting up the Internet connection	19
Configuring the Internet connection	27
Dialling into the Internet	30
Windows XP	33
Installing the USB driver.....	33
Installing the TAPI, CAPI-2.0 and CoNDIS-WAN drivers.....	36
Setting up the Internet connection	44
Configuring the Internet connection	51
Dialling into the Internet	52
Windows Vista	55
Installing the USB driver.....	55
Installing the TAPI, CAPI-2.0 and CoNDIS-WAN drivers.....	58
Setting up the Internet connection	65
Configuring the Internet connection	70
Dialling into the Internet	74
Windows 7	77
Installing the USB, CAPI-2.0 and CoNDIS-WAN drivers	77
Installing the TAPI driver	81
Setting up the Internet connection	85
Configuring the Internet connection	87
Dialling into the Internet	88
Preparing Internet Access	91
Setting up the COMfortel 2500 (example).....	91
Setting up the COMpact 2104.2/2204/2206/4410 USB (example)	92

Table of Contents

Glossary	94
Index	95

Important Information

This section includes information and notes regarding the use of the drivers included on the CD (Auerswald Mega Disk as of version 5.81; Windows 7: Auerswald Mega Disk as of version 5.95). Before you begin installing the drivers, please become familiar with the intended use of the software.

This section also contains important safety information for protecting you against the misuse of PBX functions as well as damaging dialer programs.

Proper Use

The USB, TAPI, CAPI-2.0 and NDIS-WAN/CoNDIS-WAN drivers included on the CD (Auerswald Mega Disk as of version 5.81; Windows 7: Auerswald Mega Disk as of version 5.95) are designed for aiding the operation of the following Auerswald USB devices:

- COMfortel 2500/2500 AB
- COMPact 2104.2 USB
- COMPact 2204 USB
- COMPact 2206 USB
- COMPact 4410 USB

Installing the current USB driver lets you configure an Auerswald USB device over a USB interface on a computer.

The installation of the current CAPI-2.0 and the NDIS-WAN/CoNDIS-WAN drivers let you emulate the functions of an ISDN PC controller as well as of an ISDN network controller using an Auerswald USB device. These drivers support Internet access over the Windows dial-up network.

Note: *Operating the integrated ISDN card adapter on an Auerswald USB device via the CAPI interface on the computer which is also equipped with an ISDN PC controller from a different manufacturer is not possible.*

The current USB, CAPI-2.0 and NDIS-WAN/CoNDIS-WAN drivers support the operating systems Windows 2000 (NDIS-WAN driver), 32-bit Windows XP as well as 32-/64-bit Windows Vista and 32-/64-bit Windows 7 (CoNDIS-WAN driver).

Installing the current TAPI driver lets you use TAPI applications via the USB interface on an Auerswald USB device.

The current TAPI driver supports the operating systems Windows 2000, 32-bit Windows XP, 32-bit Windows Vista (Auerswald Mega Disk as of version 5.81), 32-bit Windows 7 (Auerswald Mega Disk as of version 5.95), 64-bit Windows Vista and 64-bit Windows 7 (Auerswald Mega Disk as of version 6.02).

Important Information

Note: If older Auerswald drivers are located on your computer (Windows XP or Windows Vista: Auerswald Mega Disk prior to version 5.81; Windows 2000: Auerswald Mega Disk prior to version 4.73); please take note of the information on updating or deinstalling the drivers, located on the Auerswald Mega Disk and at www.auerswald.de.

Important: The range of features described in this manual can only be used to its full extent if the entire telephone system and the connected computer are properly installed and configured.

→ If necessary, please consult your vendor for more information.

Important: General limitation of legal responsibility and application – Auerswald products are not designed or intended for use in any life-saving and/or life support application and/or nuclear facility. When using our products for such applications, a written agreement from Auerswald for each individual case is necessary in advance.

Safety Information

Important: In order to protect PBX functions from misuse, you have the option of implementing several security measures.

- Define an installer and user password on the PBX.
- Allow no unauthorised access to the PBX and its programming.
- Use the available permissions as advised (authorisation for programming via the internal S₀ port, programming authorisation, exchange line authorisations, restricted numbers, etc.).
- Handle the passwords in a responsible manner.

Note: Additional advice against abuse may be found in the paper from the Bundesamt für Sicherheit in der Informationstechnik: „Sicherer Einsatz von digitalen Telekommunikationsanlagen“ on the Internet.

Important: Your Auerswald USB device provides reliable protection against the use of dialer programs that dial into the Internet via expensive telephone numbers (for example, with the 0137x or 0900x prefixes). You can prevent dialer programs from functioning by observing the following points:

- Enter the telephone number ranges to be blocked as restricted numbers in the PBX (with the COMtools telephone book).
- Activate the restricted numbers for ISDN PC controllers on internal S₀, U_Po and USB ports (using COMset).

Important: If a PBX configuration is incomplete or incorrect, dialers may be able to bypass the restricted numbers under certain circumstances. Therefore, make sure that when configuring your PBX and ISDN PC controllers, you always take the following into consideration:

- On every internal S₀ or U_{P0} port with a connected ISDN PC controller, two internal telephone numbers must be configured as an “ISDN PC controller”. The restricted numbers for both of these internal telephone numbers must also be activated.
- If the ISDN PC controller supports it, assign the card one of the telephone numbers previously configured for the internal S₀ or U_{P0} port.

Note: On Windows XP, Windows Vista and Windows 7 no telephone numbers can be selected while establishing an Internet connection via the Auerswald drivers. Configured ISDN PC controller telephone numbers are automatically used for the internal S₀ or U_{P0} port. For more than three configured telephone numbers, the two lowest telephone numbers are used.

Windows 2000

This section describes the installation of the USB, TAPI, CAPI-2.0 and NDIS-WAN drivers (Auerswald Mega Disk as of version 5.81, driver version 3.00.XX) on Windows 2000.

In addition, this section also describes how to set up and configure an Internet connection on Windows 2000 using a dial-up network to dial into the Internet.

Installing the USB driver

Note: If the current Auerswald USB driver (Auerswald Mega Disk as of version 5.81) has already been installed (for example, because you have already used the USB interface via your Auerswald USB device and the associated configuration program), the hardware wizard will not start again.

→ If necessary, continue the installation of the TAPI, CAPI-2.0 and NDIS-WAN drivers on [page 11](#).

Requirements

- Active USB connection between the USB device and the computer (see the Auerswald USB device manual)
- Auerswald Mega Disk (version 5.81 or higher)
- PC with the following features:
 - Intel Pentium 500 MHz or compatible processor
 - RAM memory: 64 MB, recommended 128 MB
 - Operating system: Windows 2000 (Service Pack 4 or higher)
 - USB port according to USB specification 1.1 or 2.0
 - CD-ROM or DVD drive
 - Mouse or compatible pointer device
 - SVGA graphic controller with a resolution of 800 x 600; recommended 1024 x 768 and 65536 colours (16 bit)

Note: Sometimes a USB driver update is necessary for your mainboard. If necessary, ask the vendor of the mainboard.

- Complete deinstallation of any old USB drivers still on the computer (Auerswald Mega Disk prior to version 4.73)

Note: An old USB driver can be deinstalled using the USB deinstallation tool (Cleaner.exe), which is found on the Auerswald Mega Disk (as of version 5.81) under "Software".

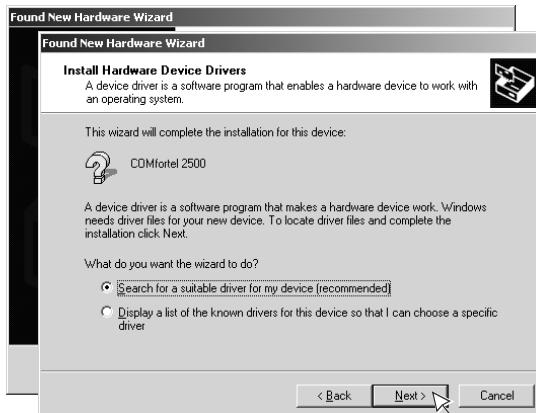
→ After deinstalling the old USB driver, restart the computer.

Steps to take

The hardware wizard will automatically start in order to install the USB driver for the device.

1. Click **Next**.

Click **Search for a suitable driver for my device (recommended)**.
Click **Next**.



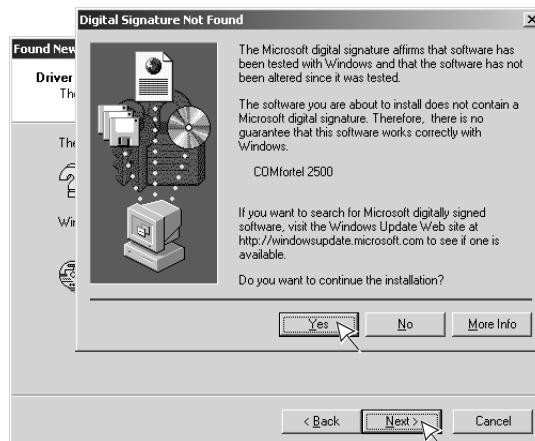
2. Enable the check box **CD-ROM drives** and disable the other check boxes.
Click **Next**.



Once the driver is found, you will be asked to continue.

Windows 2000

3. Click **Next**.
Click **Yes**.



The necessary files are copied.

4. Click **Finish**.



Installing the TAPI, CAPI-2.0 and NDIS-WAN drivers

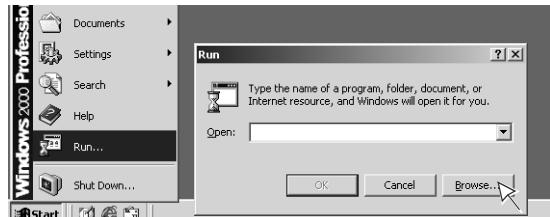
Note: The three drivers can be installed using the installation wizard. This must be started manually after the USB drivers have been installed.

Requirements

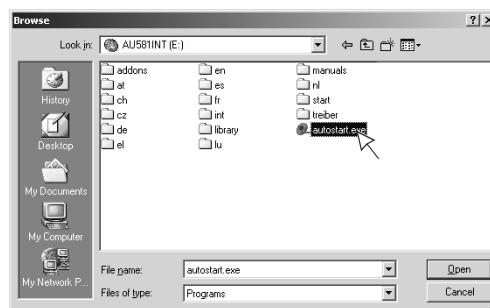
- Auerswald Mega Disk (version 5.81 or higher)
- Completed installation of the current USB driver (Auerswald Mega Disk as of version 5.81). See [page 8](#).
- Completed settings for the Auerswald USB device in question (telephone numbers have been entered in the system configuration). See section “Preparing Internet access” starting on [page 91](#).

Steps to take

1. Insert the CD (Auerswald Mega Disk) into the CD-ROM or DVD drive.
2. If the CD (Auerswald Mega Disk) does not start automatically, click **Start** and **Run...**
Click **Browse...**



3. Open the corresponding CD-ROM or DVD drive. Select the **autostart.exe** application in the root directory by clicking twice.



Windows 2000

4. Click **OK**.



5. Select the country where you use your PBX and select the language of the PC software to be installed.

Click **next**.



6. Click **next**.



7. Click the Auerswald USB device for which you would like to install the drivers or software.



The installation wizard will open.

8. Select the country where you use your PBX and select the language of the PC software to be installed.
Click **Next**.



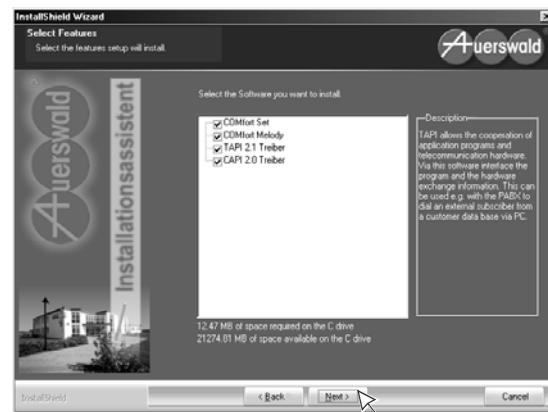
9. Enable the check box **Create desktop icons for all programs** if you would later like to start any of the software to be installed by double-clicking the corresponding icon on the desktop.
Enable the check box **Use the standard installation path for all programs** in order to use the default installation paths for any software to be

Windows 2000

installed.
Click **Next**.



- 10.** Enable the check box for the necessary drivers (in this case, TAPI and CAPI-2.0 drivers are enabled). In addition, you can enable the check boxes for various configuration and operating programs for your Auerswald USB device.

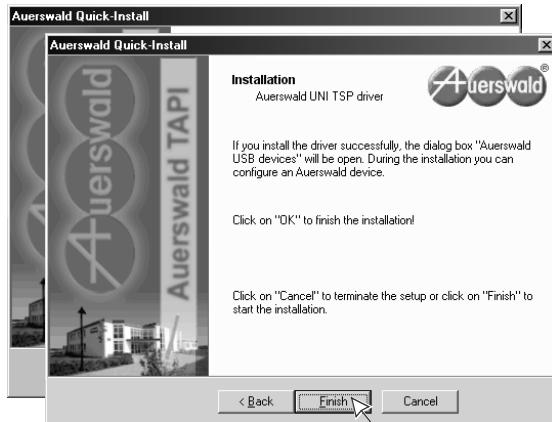


Note: The NDIS-WAN driver is automatically installed with the CAPI-2.0 driver.

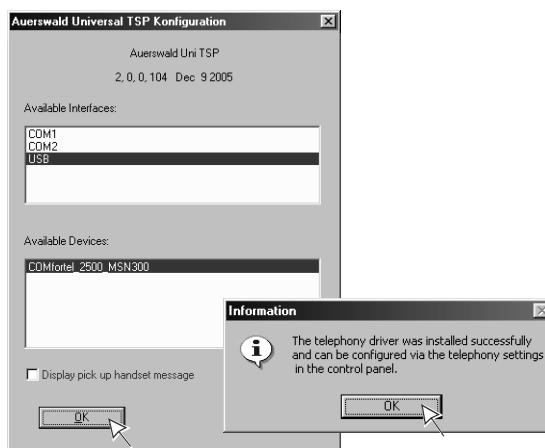
Note: Depending on the device and the components selected, the following steps may deviate from those described here.

The installation wizard for installing the TAPI driver opens.

11. Click **Next**.
Click **Finish**.



12. Select the interface and the Auerswald USB device which will be used with the TAPI driver and click **OK**.
Click **OK**.



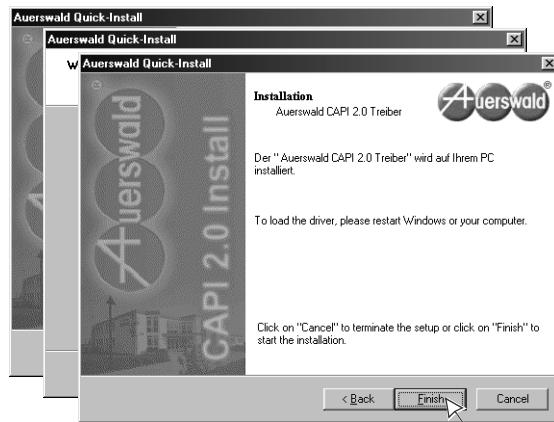
The installation wizard for installing the CAPI-2.0 driver opens.

Note: If a CAPI driver is already installed on the computer, the wizard ends with a prompt to remove/deinstall the existing CAPI driver.

→ After this, be sure to restart the computer.

Windows 2000

13. Click **Next**.
- Click **Next**.
- Click **Finish**.

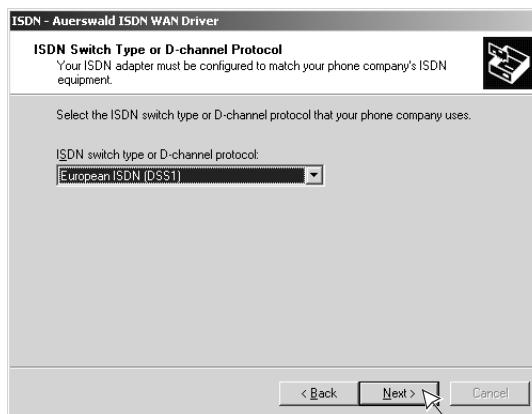


The installation wizard for installing the NDIS-WAN driver opens.

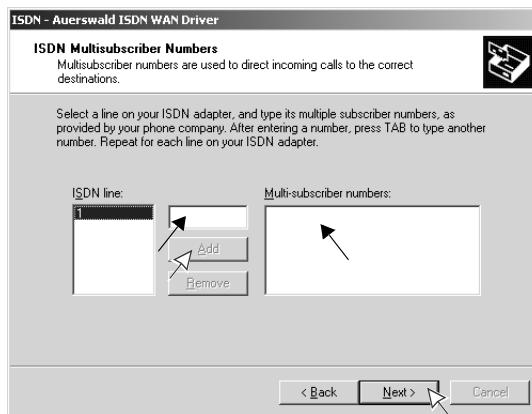
14. Click **Next**.
- Click **Yes**.



15. Select **European ISDN (DSS1)** under **ISDN switch type or D-channel protocol**.
Click **Next**.



16. In the field above the **Add** button, enter the internal telephone number that you intend to use or have already set up for Internet access, and then click **Add**. Repeat the procedure until all of the required internal telephone numbers are displayed in the field under **Multi-subscriber numbers**.
Click **Next**.



Windows 2000

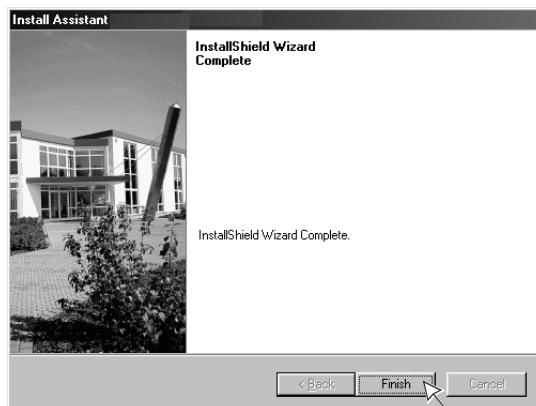
17. Click **Finish**.



18. Click **OK**.



19. Click **Finish**.



20. Click **Finish**.

Setting up the Internet connection

Note: If you would like to establish an Internet connection using the software provided by your Internet service provider (for example, T-Online), refer to the documentation for the software in question.

Requirements

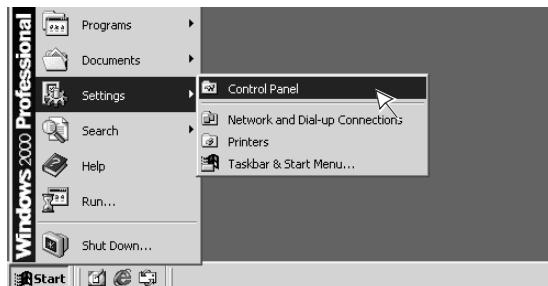
- The following information of an Internet service provider (ISP) of your choice:
 - your user name and your password
 - your ISDN dial-up number
 - some protocol characteristics like host name, domain name, address of a domain name server, IP address, gateway address (will automatically be assigned by most providers)

Note: Some Internet service providers require you to register in order to receive an Internet user account.

- Active USB connection between the USB device and the computer
- Completed installation of the USB, CAPI-2.0 and NDIS-WAN drivers. See [page 8](#).
- Completed settings for the Auerswald USB device in question. See section “Preparing Internet access” starting on [page 91](#).

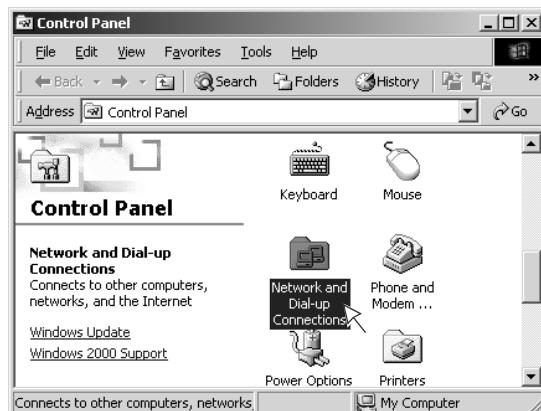
Steps to take

1. Click **Start**, **Settings** and **Control Panel**.

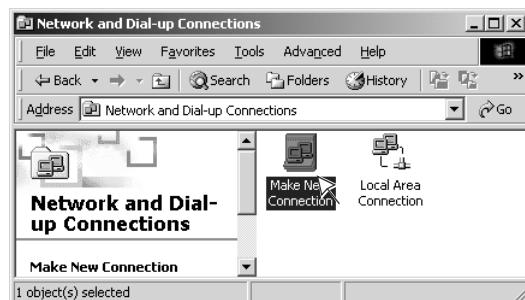


Windows 2000

2. Double-click **Network and Dial-up Connections**.



3. Double-click **Make New Connection**.

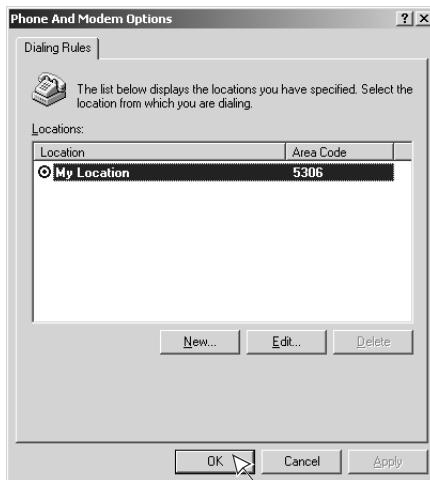


Note: The following two dialogues only open if you have not previously configured these settings.

4. Enter your local area or city code under **What area code (or city code)....** Be sure to enter the city code without the leading zero. Under **If you dial a number to access an outside line, ...**, enter the exchange line access number **0** for the PBX, inasmuch as your Auerswald USB device has not been configured with direct exchange access. Click **OK**.



5. Click **OK**.

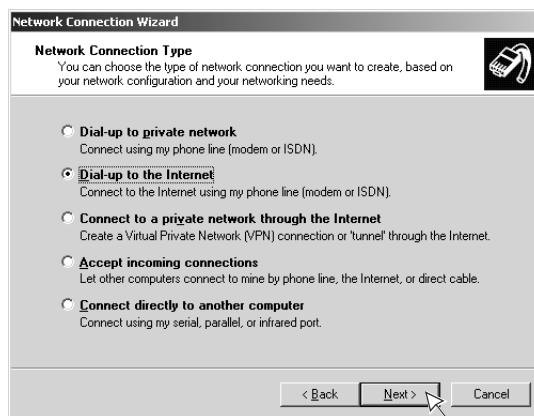


Windows 2000

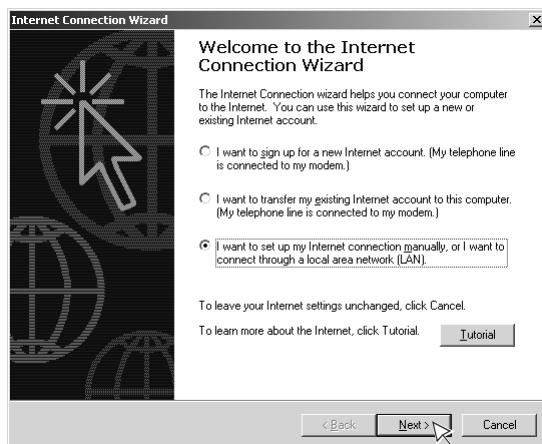
6. Click **Next**.



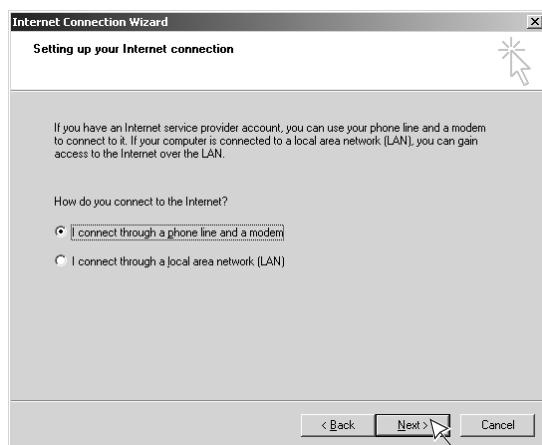
7. Click **Dial-up to the Internet**.
Click **Next**.



8. Click **I want to set up my Internet connection manually, or I want to connect through a local area network (LAN)**.
Click **Next**.

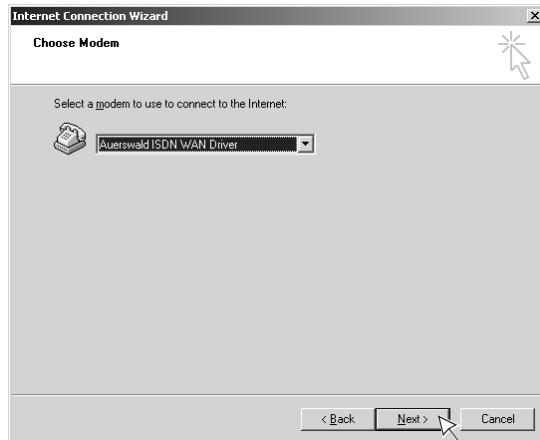


9. Click **I connect through a phone line and a modem**.
Click **Next**.

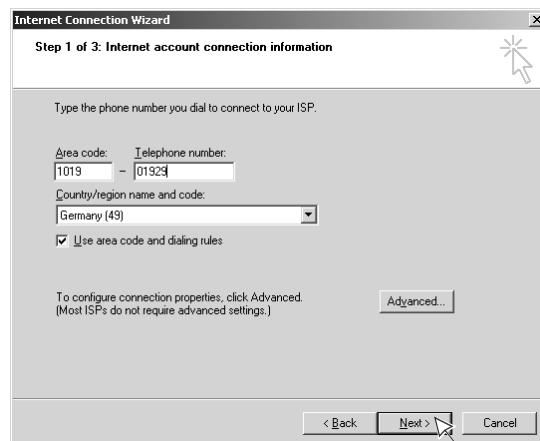


Windows 2000

10. Select the modem **Auerswald ISDN WAN Driver**.
Click **Next**.



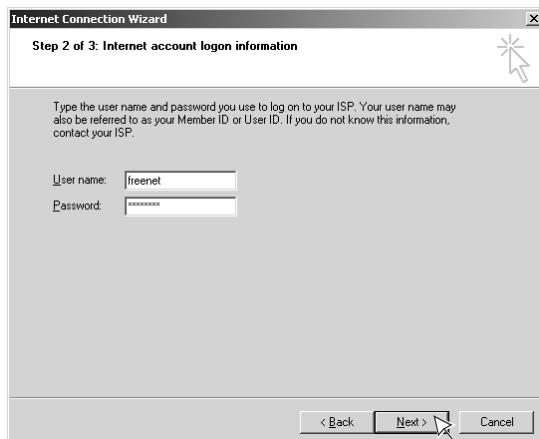
11. Under **Area code** and **Telephone number**, enter the ISDN dial-up number for your Internet service provider. Be sure to enter the city code without the leading zero.
Click **Next**.



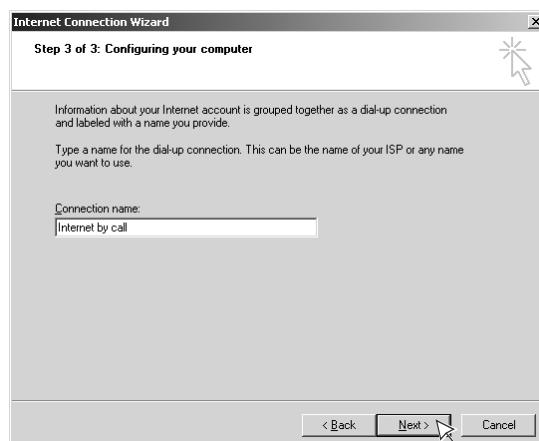
Note: Some Internet service providers offer different dial-up numbers for the analogue or the ISDN access.

→ Please make sure to enter the number for the ISDN access.

12. Under **User name**, enter the user name offered by your Internet service provider.
Under **Password**, enter the password offered by your Internet service provider.
Click **Next**.

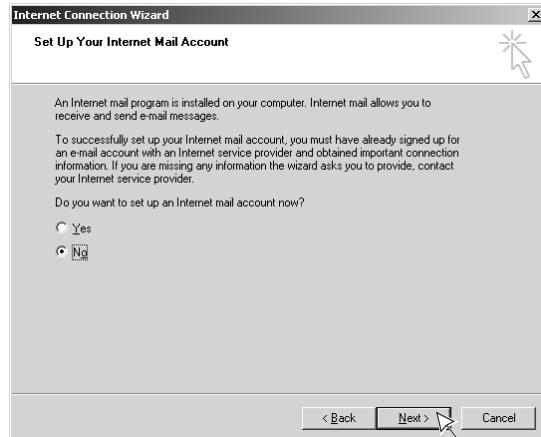


13. Under **Connection name**, enter a name for the new connection.
Click **Next**.



Windows 2000

14. This setting depends on your Internet service provider.
Click **Next**.



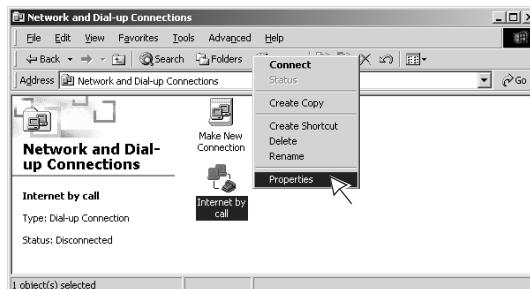
15. Click **Finish**.



Configuring the Internet connection

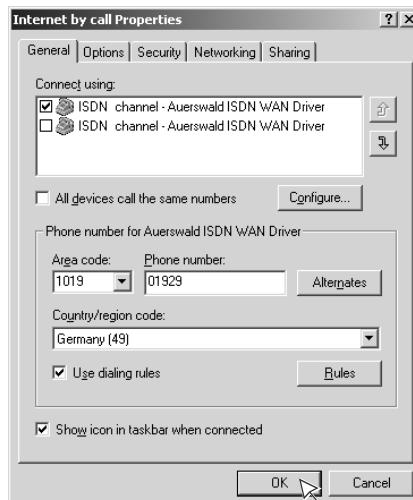
Steps to take

1. Click **Start**, **Settings** and **Control Panel** and double-click **Network and Dial-up Connections**.
2. Right-click the symbol for the newly created connection and click **Properties**.



By default, only one device **ISDN channel - Auerswald ISDN WAN Driver** is enabled, so that only one B-channel is used for the Internet connection.

3. To keep this setting, click **OK**.

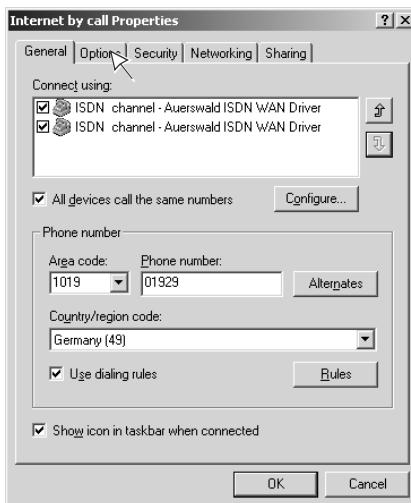


If you want to bundle two B-channels for the Internet connection (channel bundling), enable the check box **All devices call the same numbers**. Then

Windows 2000

enable the second check box **ISDN channel - Auerswald ISDN WAN Driver**.

Click the **Options** tab.



Note: In case of channel bundling two connections to the Internet service provider are charged at the same time.

→ Please make sure that your Internet service provider supports channel bundling.

Note: For channel bundling, two numbers must be entered previously during the NDIS-WAN driver installation (see [page 17](#)).

In the original state, the **Dial all devices** option is set under **Multiple devices**.

4. If you would like to configure channel bundling permanently, click **OK**. (no further settings are required)

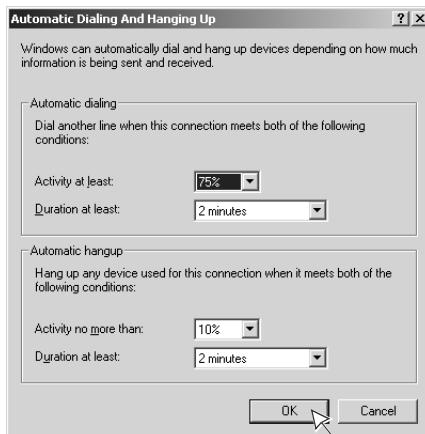
If you would like to instead configure dynamic channel bundling, select the option **Dial devices only as needed**.

Click **Configure** to configure the settings for dynamic channel bundling.



Note: In case of dynamic channel bundling the data rate is monitored all the time. As soon as it reaches a certain value, the second B-channel is added to the connection. If the data rate is falling the second B-channel will be disconnected again.

5. Configure dynamic channel bundling as you like.
Afterwards click **OK**.



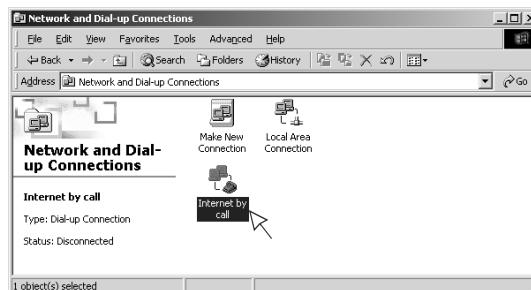
Dialling into the Internet

Steps to take

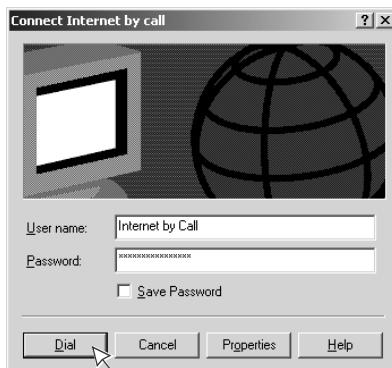
Note: If you have received a CD from your Internet service provider, insert it into the CD drive and follow the instructions. If necessary, adjust the procedure described here.

Note: In order to bypass the following steps and to therefore simplify dialling into the Internet, you can configure your Internet browser (for example, Microsoft Internet Explorer) in such a way that whenever an address is entered, a connection is automatically established via the dial-up network (for example, in Internet Explorer under **Tools ... Internet Options ... Connections ... Always dial my default connection**). Please refer to the documentation/Help section for your browser).

1. Click **Start, Settings** and **Control Panel** and double-click **Network and Dial-up Connections**.
2. Double-click the symbol for the newly created connection.



3. Under **User name**, enter the user name offered by your Internet service provider.
Under **Password**, enter the password offered by your Internet service provider.
Click **Dial**.



The Internet connection is established.



4. Open an Internet browser (for example, Internet Explorer or Mozilla Firefox). You can use this program to view pages on or download files from the Internet.

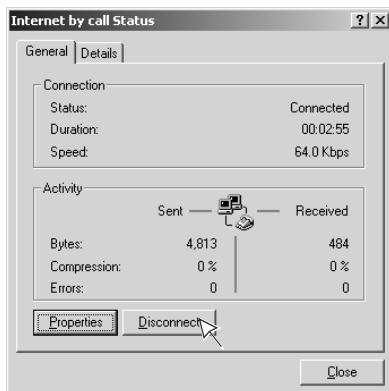
The connection symbol in the Windows task bar (to the left next to the time) indicates whether the connection is active.

5. To get more information or to disconnect the connection, double-click this symbol.



Windows 2000

The opened dialogue displays information such as how long an Internet connection has been active and how much data has already been transmitted.



6. To disconnect the Internet connection, click ***Disconnect***.

Windows XP

This section describes the installation of the USB, TAPI, CAPI-2.0 and CoNDIS-WAN drivers (Auerswald Mega Disk as of version 5.81, driver version as of 4.00.XX) on 32-bit Windows XP.

In addition, this section also describes how to set up and configure an Internet connection on 32-bit Windows XP using a dial-up network to dial into the Internet.

Installing the USB driver

Note: If the current Auerswald USB driver (Auerswald Mega Disk as of version 5.81) has already been installed (for example, because you have already used the USB interface via your Auerswald USB device and the associated configuration program), the hardware wizard will not start again.

→ If necessary, continue the installation of the TAPI, CAPI-2.0 and CoNDIS-WAN drivers on [page 36](#).

Requirements

- Active USB connection between the USB device and the computer (see the Auerswald USB device manual)
- Auerswald Mega Disk (version 5.81 or higher)
- PC with the following features:
 - Intel Pentium 800 MHz or compatible processor
 - RAM memory: 256 MB, recommended 512 MB
 - Operating system: Windows XP (Service Pack 3 or higher)
 - USB port according to USB specification 1.1 or 2.0
 - CD-ROM or DVD drive
 - Mouse or compatible pointer device
 - SVGA graphic controller with a resolution of 800 x 600; recommended 1024 x 768 and 65536 colours (16 bit)

Note: Sometimes a USB driver update is necessary for your mainboard. If necessary, ask the vendor of the mainboard.

- Complete deinstallation of any old USB drivers still on the computer (Auerswald Mega Disk prior to version 5.81)

Note: An old USB driver can be deinstalled using the USB deinstallation tool (Cleaner.exe), which is found on the Auerswald Mega Disk (as of version 5.81) under "Software".

→ After deinstalling the old USB driver, restart the computer.

Windows XP

Steps to take

The hardware wizard will automatically start in order to install the USB driver for the device.

1. Click **No, not this time**.

Click **Next**.



2. Insert the CD (Auerswald Mega Disk) into the CD-ROM or DVD drive and, if necessary, minimize the CD start screen (Auerswald Mega Disk).

3. Click **Install the software automatically (Recommended)**.
Click **Next**.



A search is made for the USB driver to be installed. After this, the installation of the USB driver is started.

4. Depending on your settings, it is possible that this dialogue will not be shown.
Click **Continue Anyway**, as far as this dialogue is shown.



The installation of the USB driver is resumed.

5. Click **Finish**.



Installing the TAPI, CAPI-2.0 and CoNDIS-WAN drivers

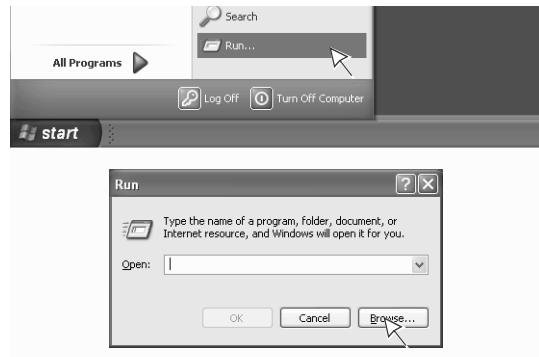
Note: The three drivers can be installed using the installation wizard. This must be started manually after the USB drivers have been installed.

Requirements

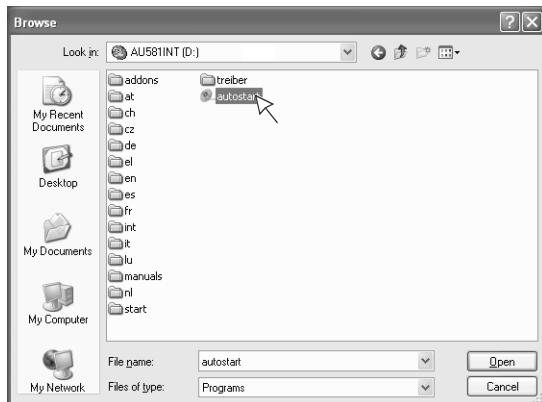
- Auerswald Mega Disk (version 5.81 or higher)
- Completed installation of the current USB driver (Auerswald Mega Disk as of version 5.81). See [page 33](#).

Steps to take

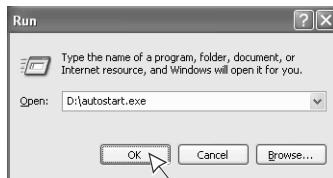
1. Insert the CD (Auerswald Mega Disk) into the CD-ROM or DVD drive.
2. If the CD (Auerswald Mega Disk) does not start automatically, click **Start** and **Run...**
Click **Browse...**



3. Open the corresponding CD-ROM or DVD drive. Select the **autoplay** application in the root directory by clicking twice.



4. Click **OK**.



5. Select the country where you use your PBX and select the language of the PC software to be installed.
Click **next**.



Windows XP

6. Click **next**.



7. Click the Auerswald USB device for which you would like to install the drivers or software.



8. Enable the check box **Create desktop icons for all programs** if you would later like to start any of the software to be installed by double-clicking the corresponding icon on the desktop.

Enable the check box **Use the standard installation path for all programs** in order to use the default installation paths for any software to be installed.

Click **Next**.



9. Enable the check box for the necessary drivers (in this case, TAPI and CAPI-2.0 drivers are enabled). In addition, you can enable the check boxes for various configuration and operating programs for your Auerswald USB device.



Note: The CoNDIS-WAN driver is automatically installed together with the CAPI-2.0 driver.

Windows XP

10. Read the license agreement. Afterwards, click **I accept the terms of the license agreement**.

Click **Next**.



Note: Depending on the device and the components selected, the following steps may deviate from those described here.

The installation wizard for installing the TAPI driver opens.

11. Click **Next**.

Read the license agreement. Afterwards, click **I accept the terms of the license agreement**.

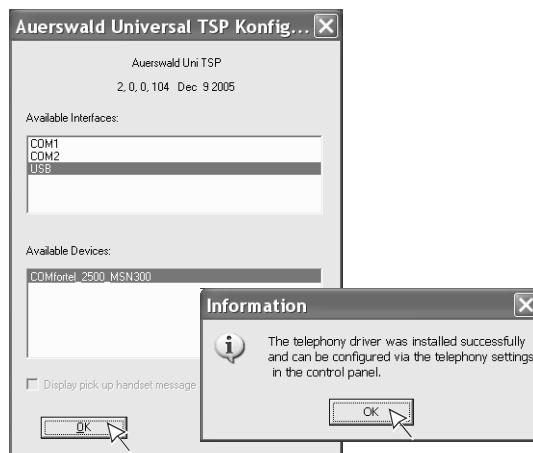
Click **Next**.



12. Click **Finish**.



13. Select the interface and the Auerswald USB device which will be used with the TAPI driver and click **OK**.
Click **OK**.



The installation wizard for installing the CAPI-2.0 and CoNDIS-WAN drivers opens.

14. Select the language of the PC software to be installed.
Click **OK**.



Note: If no driver has been installed on the computer or if only an old USB driver is present, the wizard will end and prompt you to deinstall any existing USB drivers using the "USB deinstallation tool" (Cleaner.exe) and to install the current USB driver from the Auerswald Mega Disk (see [page 33](#)).

Note: If a CAPI driver is already installed on the computer, the wizard ends with a prompt to remove/deinstall the existing CAPI driver.

→ After this, be sure to restart the computer.

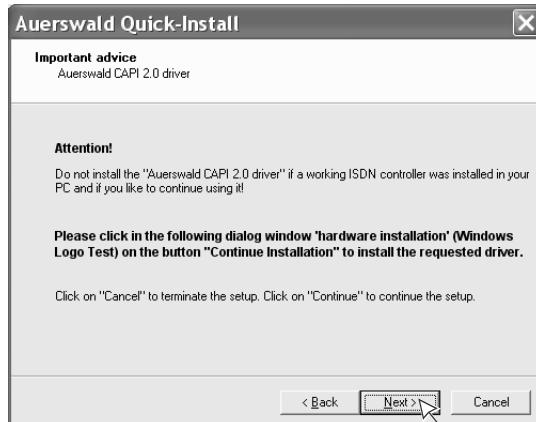
15. Click **Next**.

Read the license agreement. Afterwards, click **I accept the terms of the license agreement**.

Click **Next**.

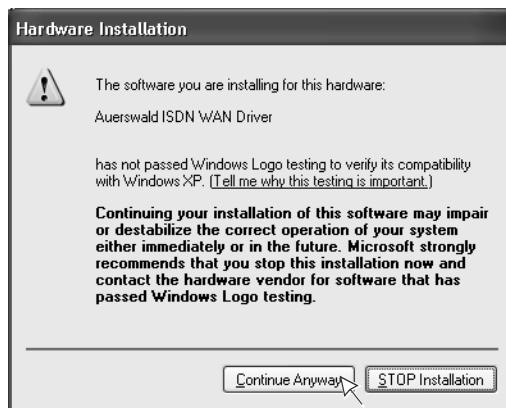


16. Click *Next*.



The installation of the CAPI-2.0 and the CoNDIS-WAN driver is started.

17. Click *Continue Anyway*.



The installation is resumed.

18. Click **Finish**.



19. If necessary, restart your computer.

Setting up the Internet connection

Note: If you would like to establish an Internet connection using the software provided by your Internet service provider (for example, T-Online), refer to the documentation for the software in question.

Requirements

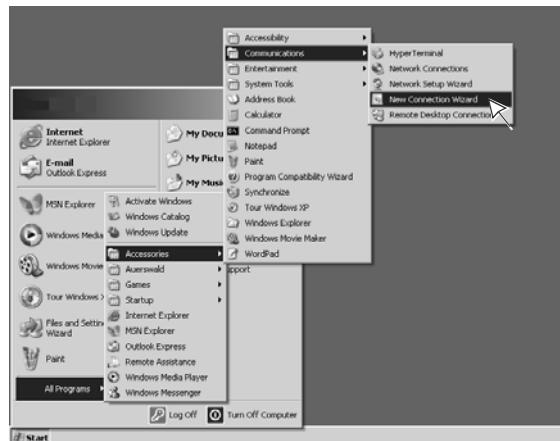
- The following information of an Internet service provider (ISP) of your choice:
 - your user name and your password
 - your ISDN dial-up number
 - some protocol characteristics like host name, domain name, address of a domain name server, IP address, gateway address (will automatically be assigned by most providers)

Note: Some Internet service providers require you to register in order to receive an Internet user account.

- Active USB connection between the USB device and the computer
- Completed installation of the USB, CAPI-2.0 and CoNDIS-WAN drivers. See [page 33](#).
- Completed settings for the Auerswald USB device in question. See section "Preparing Internet access" starting on [page 91](#).

Steps to take

1. Click **Start, All Programs, Accessories, Communications** and **New Connection Wizard**.



Note: The following two dialogues only open if you have not previously configured these settings.

2. Enter your local area or city code under **What area code (or city code)....** Be sure to enter the city code without the leading zero.

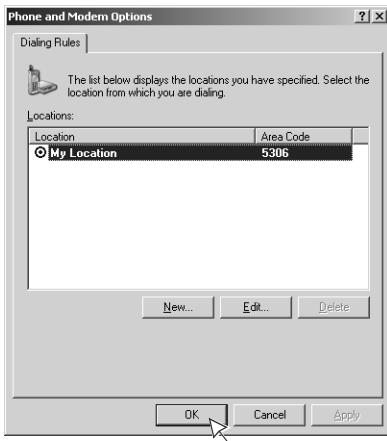
Under **If you dial a number to access an outside line, ..., enter the exchange line access number 0** for the PBX, inasmuch as your Auerswald USB device has not been configured with direct exchange access.

Click **OK**.



Windows XP

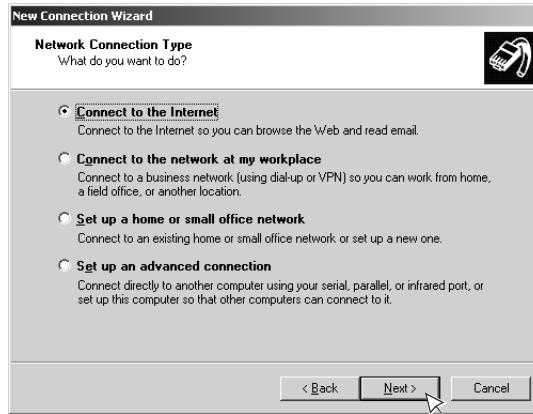
3. Click **OK**.



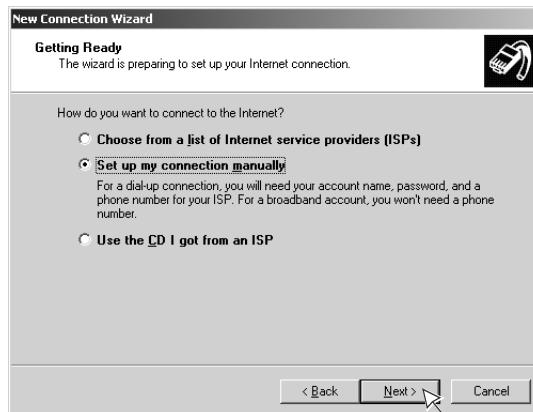
4. Click **Next**.



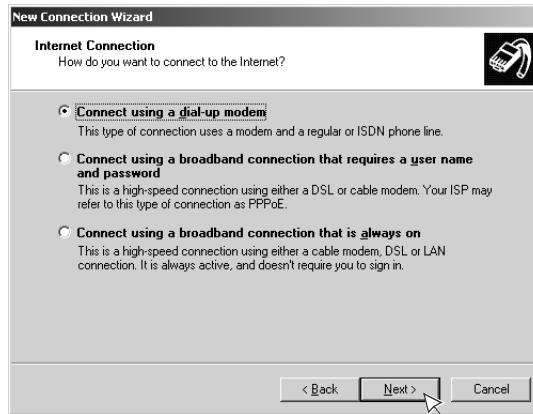
5. Click **Connect to the Internet**.
Click **Next**.



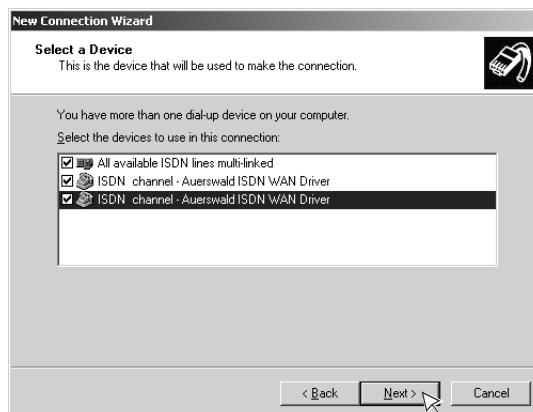
6. Click **Set up my connection manually**.
Click **Next**.



7. Click **Connect using a dial-up modem**.
Click **Next**.



8. To activate channel bundling, enable the two check boxes **ISDN channel - Auerswald ISDN WAN Driver**.
Click **Next**.



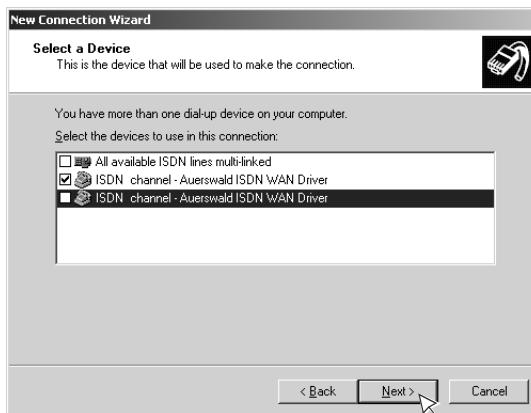
Note: In case of channel bundling two connections to the Internet service provider are charged at the same time.

→ Please make sure that your Internet service provider supports channel bundling.

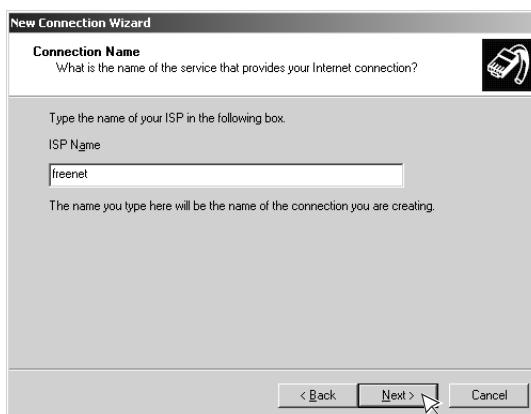
Note: For channel bundling, two telephone numbers must be entered as "ISDN PC controller" devices for the Auerswald USB device in question (see [page 91](#)).

In order to access the Internet exclusively over a defined B-channel, first disable the check box **All available ISDN lines multi-linked**, and then enable one of the two check boxes **ISDN channel - Auerswald ISDN WAN Driver**.

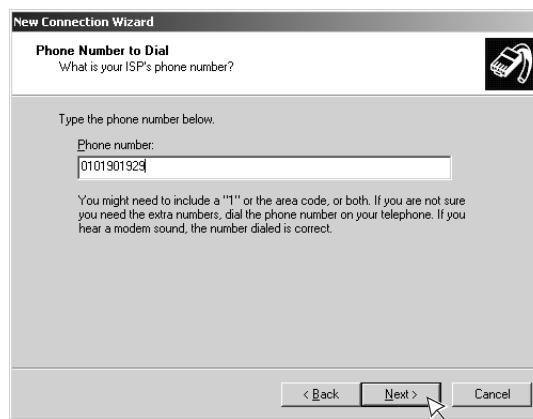
Click **Next**.



- Under **Connection Name**, for example, enter the name of the Internet service provider.
Click **Next**.



10. Under **Phone Number to Dial**, enter the ISDN dial-up number of your Internet service provider.
Click **Next**.



Note: Some Internet service providers offer different dial-up numbers for the analogue or the ISDN access.

→ Please make sure to enter the number for the ISDN access under **Phone Number to Dial**.

11. Under **User name**, enter the user name offered by your Internet service provider.
Under **Password**, enter the password offered by your Internet service provider.
Repeat the password.
Click **Next**.



12. If necessary, enable the check box **Add a shortcut to this connection to my desktop.**
Click **Finish**.



Configuring the Internet connection

Steps to take

1. Click **Start** and **Connect to**.

Or: Double-click the desktop icon for the connection.



Windows XP

2. Click **Properties**.



3. Enable the check box **Use Dialing rules**.
Click **OK**.



Dialling into the Internet

Steps to take

Note: If you have received a CD from your Internet service provider, insert it into the CD drive and follow the instructions. If necessary, adjust the procedure described here.

Note: In order to bypass the following steps and to therefore simplify dialing into the Internet, you can configure your Internet browser (for example, Microsoft Internet Explorer) in such a way that whenever an address is entered, a connection is automatically established via the dial-up network (for example, in Internet Explorer under **Tools ... Internet Options ... Connections ... Always dial my default connection**. Please refer to the documentation/Help section for your browser).

1. Click **Start** and **Connect to**.

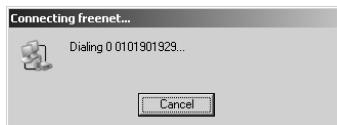
Or: Double-click the desktop icon for the connection.



2. Under **User name**, enter the user name offered by your Internet service provider.
Under **Password**, enter the password offered by your Internet service provider.
Click **Dial**.



The Internet connection is established.



Windows XP

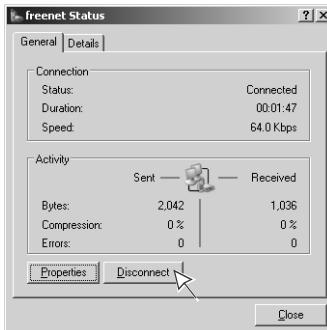
3. Open an Internet browser (for example, Internet Explorer or Mozilla Firefox). You can use this program to view pages on or download files from the Internet.

The connection symbol in the Windows task bar (to the left next to the time) indicates whether the connection is active.

4. To get more information or to disconnect the connection, double-click this symbol.



The opened dialogue displays information such as how long an Internet connection has been active and how much data has already been transmitted.



5. To disconnect the Internet connection, click **Disconnect**.

Windows Vista

This section describes how to install the USB, CAPI-2.0 and CoNDIS-WAN drivers (driver version as of 4.00.XX) on 32-/64-bit Windows Vista as well as how to install the TAPI driver on 32-bit Windows Vista (Auerswald Mega Disk as of version 5.81) and 64-bit Windows Vista (Auerswald Mega Disk as of version 6.02).

In addition, this section also describes how to set up and configure an Internet connection on 32-bit or 64-bit Windows Vista using a dial-up network to dial into the Internet.

Installing the USB driver

Note: If the current Auerswald USB driver (Auerswald Mega Disk as of version 5.81) has already been installed (for example, because you have already used the USB interface via your Auerswald USB device and the associated configuration program), the hardware wizard will not start again.

→ If necessary, continue the installation of the TAPI, CAPI-2.0 and CoNDIS-WAN drivers on [page 58](#).

Requirements

- Active USB connection between the USB device and the computer (see the Auerswald USB device manual)
- Auerswald Mega Disk (version 5.81 or higher)
- PC with the following features:
 - Intel Pentium 1 GHz or compatible processor
 - RAM memory:
for Windows Vista Capable: 512 MB, recommended 1 GB
for Windows Vista Premium: 1 GB
 - Operating systems: 32-bit Windows Vista, 64-bit Windows Vista
 - USB port according to USB specification 1.1 or 2.0
 - CD-ROM or DVD drive
 - Mouse or compatible pointer device
 - SVGA graphic controller with a resolution of 800 x 600; recommended 1024 x 768 and 65536 colours (16 bit)

Note: Sometimes a USB driver update is necessary for your mainboard. If necessary, ask the vendor of the mainboard.

- Complete deinstallation of any old USB drivers still on the computer (Auerswald Mega Disk prior to version 5.81)

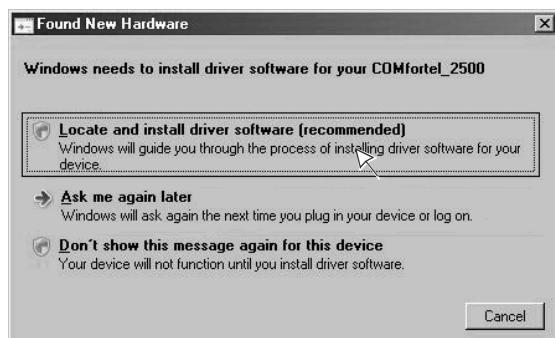
Note: Use the device manager to deinstall the old USB driver, if necessary. You can open this via the commands **Start ... Control Panel (Classic View) ... Device Manager**. If your Auerswald USB device is connected to the your computer, you will find the old USB driver as a submenu item under **USB controllers**.

→ After deinstalling the old USB driver, restart the computer.

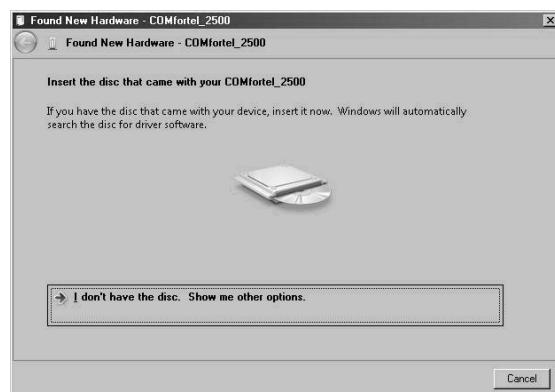
Steps to take

The hardware wizard will automatically start in order to install the USB driver for the device.

1. Click **Locate and install driver software (recommended)**.

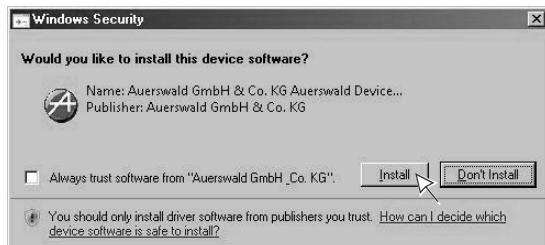


2. Depending on your settings, the **User Account Control** dialogue may appear. Click **Continue**.
3. Insert the CD (Auerswald Mega Disk) into the CD-ROM or DVD drive.



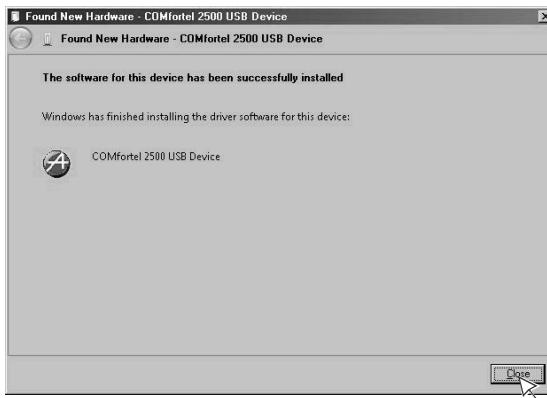
The Auerswald Mega Disk is searched for the USB driver to be installed. After this, the installation of the USB driver is started.

4. Click **Install** twice.



The installation of the USB driver is resumed.

5. Click **Close**.



The following message is displayed at the bottom right above the task bar.



Installing the TAPI, CAPI-2.0 and CoNDIS-WAN drivers

Note: The three drivers can be installed using the installation wizard. This must be started manually after the USB drivers have been installed.

Requirements

- Auerswald Mega Disk (for 32-bit Windows Vista version 5.81 or higher; for 64-bit Windows Vista version 6.02 or higher)
- Completed installation of the current USB driver (Auerswald Mega Disk as of version 5.81). See [page 55](#).

Steps to take

1. Insert the CD (Auerswald Mega Disk) into the CD-ROM or DVD drive.
2. Click **Run *autoplay.exe***.



3. Select the country where you use your PBX and select the language of the PC software to be installed.
Click **next**.



4. Click **next**.



Windows Vista

5. Click the Auerswald USB device for which you would like to install the drivers or software.

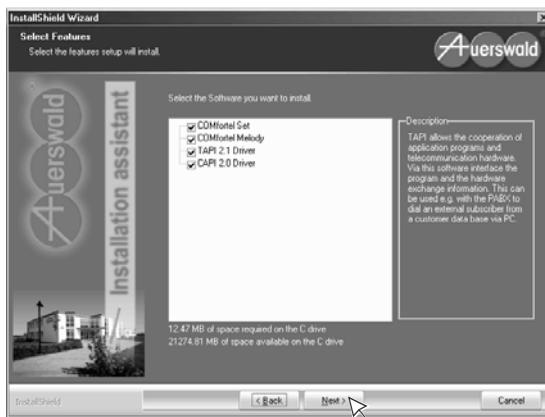


6. Depending on your settings, the **User Account Control** dialogue may appear. Click **Continue**.
7. Enable the check box **Create desktop icons for all programs** if you would later like to start any of the software to be installed by double-clicking the corresponding icon on the desktop.
Enable the check box **Use the standard installation path for all programs** in order to use the default installation paths for any software to be installed.

Click **Next**.



8. Enable the check box for the necessary drivers (in this case, TAPI and CAPI-2.0 drivers are enabled). In addition, you can enable the check boxes for various configuration and operating programs for your Auerswald USB device.



Note: The ConDIS-WAN driver is automatically installed together with the CAPI-2.0 driver.

9. Read the license agreement. Afterwards, click **I accept the terms of the license agreement**.
Click **Next**.



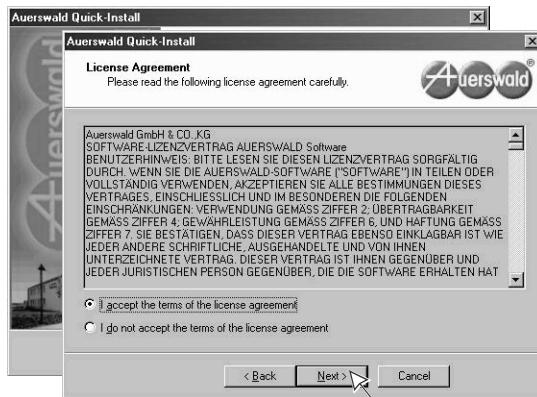
Note: Depending on the device and the components selected, the following steps may deviate from those described here.

The installation wizard for installing the TAPI driver opens.

10. Click **Next**.

Read the license agreement. Afterwards, click **I accept the terms of the license agreement**.

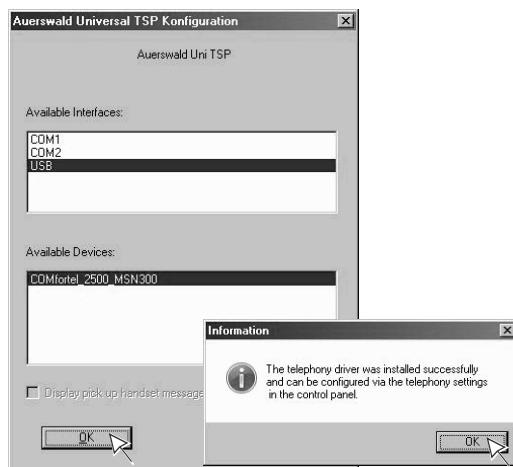
Click **Next**.



11. Click **Finish**.



12. Select the interface and the Auerswald USB device which will be used with the TAPI driver and click **OK**.
Click **OK**.



The installation wizard for installing the CAPI-2.0 and CoNDIS-WAN drivers opens.

13. Select the language of the PC software to be installed.
Click **OK**.



Note: If no driver has been installed on the computer or if only an old USB driver is present, the wizard will end and prompt you to deinstall any existing USB drivers using the "USB deinstallation tool" (Cleaner.exe) and to install the current USB driver from the Auerswald Mega Disk (see [page 55](#)).

Note: If a CAPI driver is already installed on the computer, the wizard ends with a prompt to remove/deinstall the existing CAPI driver.

→ After this, be sure to restart the computer.

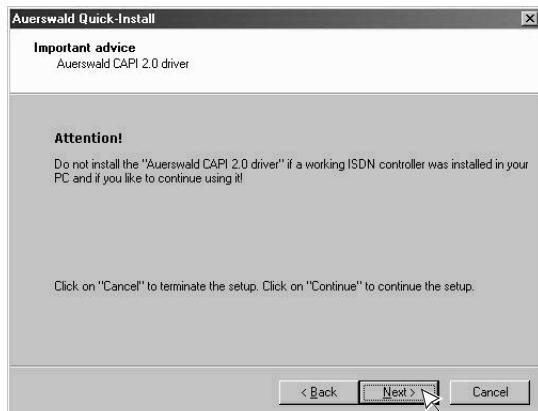
14. Click **Next**.

Read the license agreement. Afterwards, click **I accept the terms of the license agreement**.

Click **Next**.

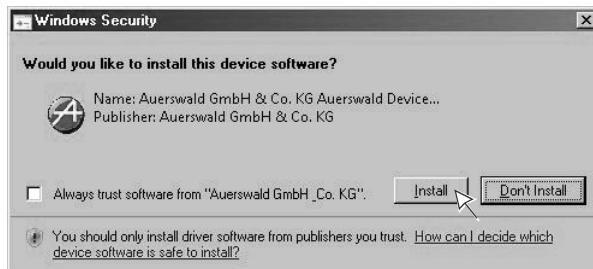


15. Click **Next**.



The installation of the CAPI-2.0 and the CoNDIS-WAN driver is started.

16. Click *Install*.



The installation is resumed.

17. Click *Finish*.



18. If necessary, restart your computer.

Setting up the Internet connection

Note: If you would like to establish an Internet connection using the software provided by your Internet service provider (for example, T-Online), refer to the documentation for the software in question.

Requirements

- The following information of an Internet service provider (ISP) of your choice:
 - your user name and your password

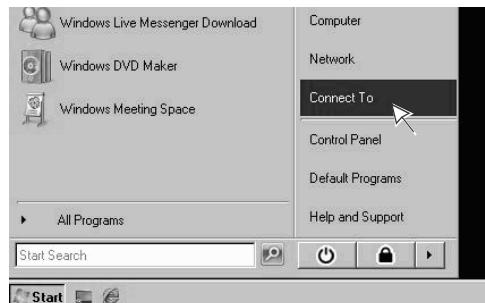
- your ISDN dial-up number
- some protocol characteristics like host name, domain name, address of a domain name server, IP address, gateway address (will automatically be assigned by most providers)

Note: Some Internet service providers require you to register in order to receive an Internet user account.

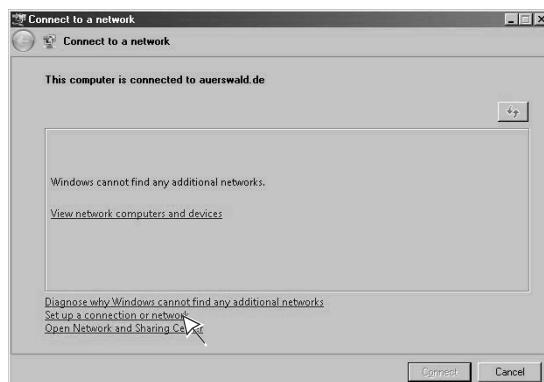
- Active USB connection between the USB device and the computer
- Completed installation of the USB, CAPI-2.0 and CoNDIS-WAN drivers. See [page 55](#).
- Completed settings for the Auerswald USB device in question. See section “Preparing Internet access” starting on [page 91](#).

Steps to take

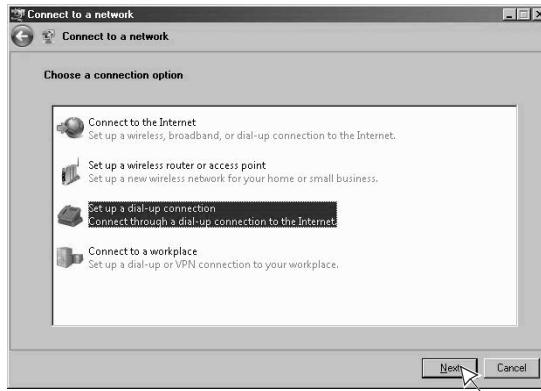
1. Click **Start** and **Connect To**.



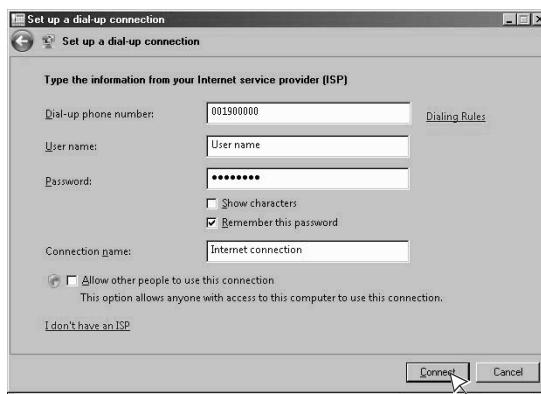
2. Click **Set up a connection or network**.



3. Click **Set up a dial-up connection**.
Click **Next**.



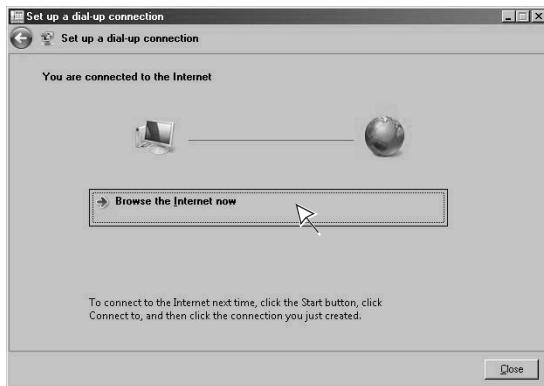
4. Under **Dial-up phone number**, enter the ISDN dial-up number of your Internet service provider.
Under **User name**, enter the user name offered by your Internet service provider.
Under **Password**, enter the password offered by your Internet service provider.
Under **Connection name**, enter a name for the connection, e.g., Internet connection.
Click **Connect**.



The Internet connection is tested.

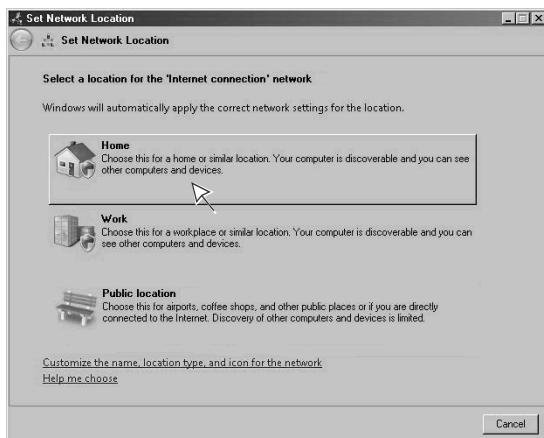
Windows Vista

5. Click **Browse the Internet now.**



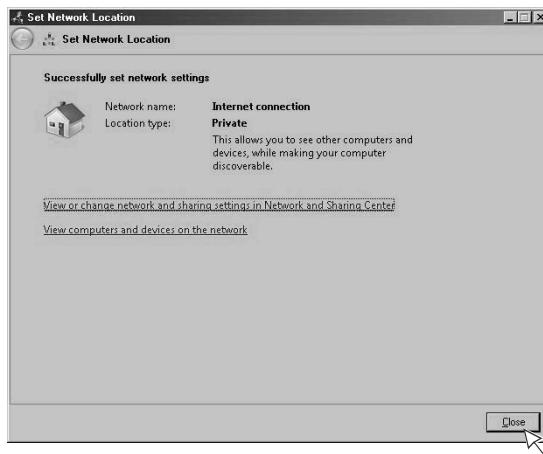
An Internet browser is opened.

6. Depending on your set-up, click **Home**, **Work** or **Public location**. (in this example, **Home** was clicked.)



7. Depending on your settings, the **User Account Control** dialogue may appear. Click **Continue**.

8. Click *Close*.

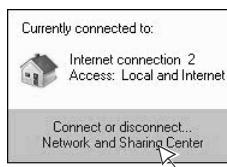


You still have an active Internet connection. Use the open Internet browser to view pages on the Internet.

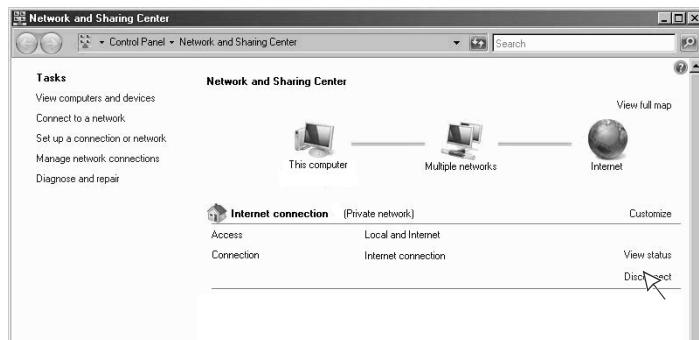
9. To disconnect the Internet connection, click the connection symbol in the Windows task bar (to the left next to the time).



10. Click *Network and Sharing Center* or the active Internet connection.



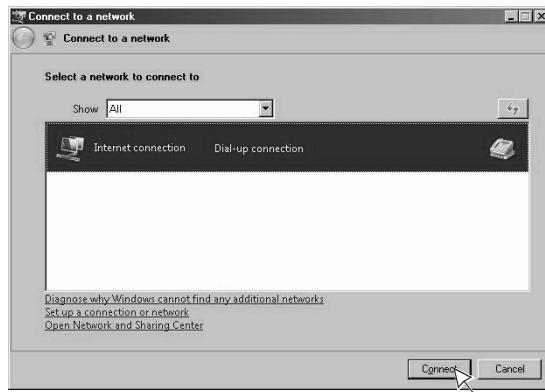
11. Click *Disconnect*.



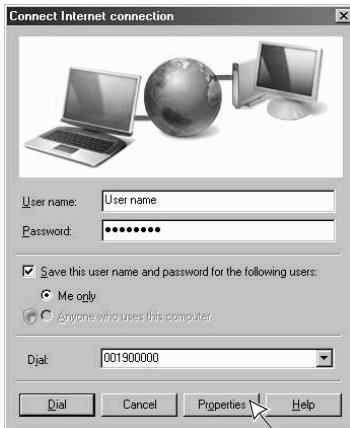
Configuring the Internet connection

Steps to take

1. Click **Start** and **Connect To**.
2. Click the connection you set up (In this case, “Internet connection”).
Click **Connect**.



3. If necessary, change the user name and the password.
Click **Properties**.



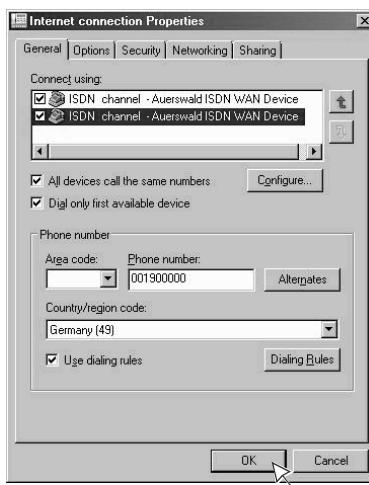
By default, only one device **ISDN channel - Auerswald ISDN WAN Device** is enabled, so that only one B-channel is used for the Internet connection.

4. To keep this setting enable the check box **Use dialing rules** and click **OK**.



If you want to bundle two B-channels for the Internet connection (channel bundling), enable the check box **ISDN channel - Auerswald ISDN WAN Device**.

Enable the check box **Use dialing rules** and click **OK**.



Note: In case of channel bundling two connections to the Internet service provider are charged at the same time.

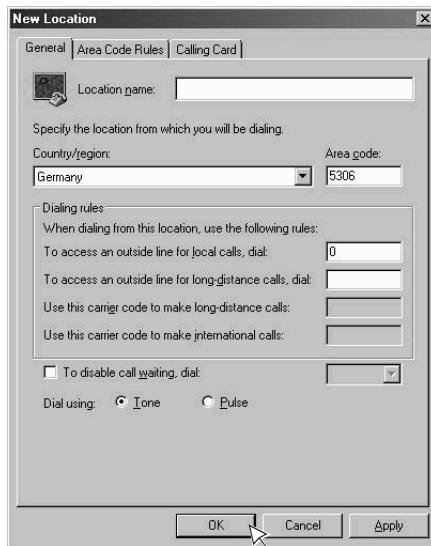
→ Please make sure that your Internet service provider supports channel bundling.

Note: For channel bundling, two telephone numbers must be entered as "ISDN PC controller" devices for the Auerswald USB device in question (see [page 91](#)).

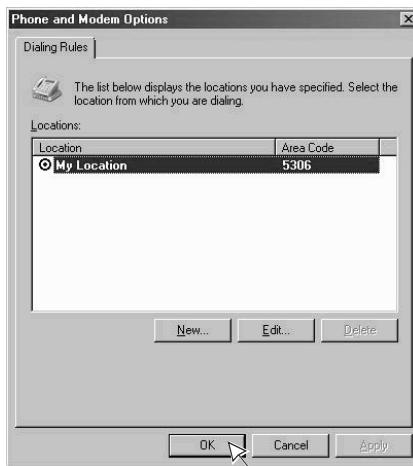
5. Enter your local area or city code under **Area code**. Be sure to enter the city code without the leading zero.

Under **To access an outside line for local calls, dial:**, enter the exchange line access number **0** for the PBX, inasmuch as your Auerswald USB device has not been configured with direct exchange access.

Click **OK**.



6. Click **OK**.

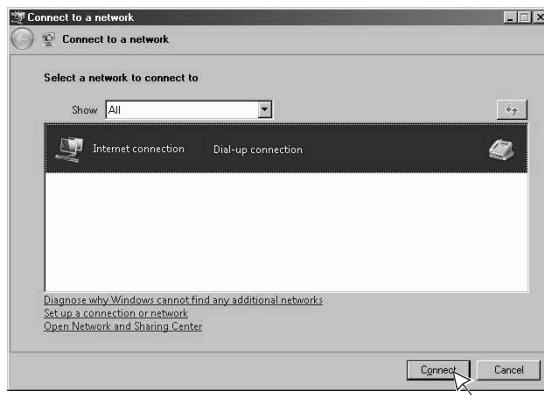


Dialling into the Internet

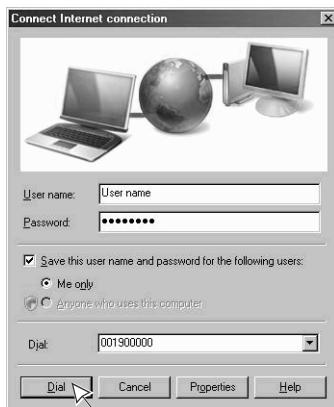
Steps to take

Note: If you have received a CD from your Internet service provider, insert it into the CD drive and follow the instructions. If necessary, adjust the procedure described here.

1. Click **Start** and **Connect To**.
2. Click the connection you set up (In this case, “Internet connection”).
Click **Connect**.



3. Under **User name**, enter the user name offered by your Internet service provider.
Under **Password**, enter the password offered by your Internet service provider.
Click **Dial**.



The Internet connection is established.

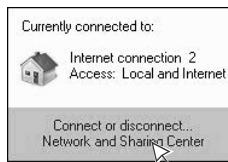
4. Open an Internet browser (for example, Internet Explorer or Mozilla Firefox). You can use this program to view pages on or download files from the Internet.

The connection symbol in the Windows task bar (to the left next to the time) indicates whether the connection is active.

5. To get more information or to disconnect the connection, double-click this symbol.



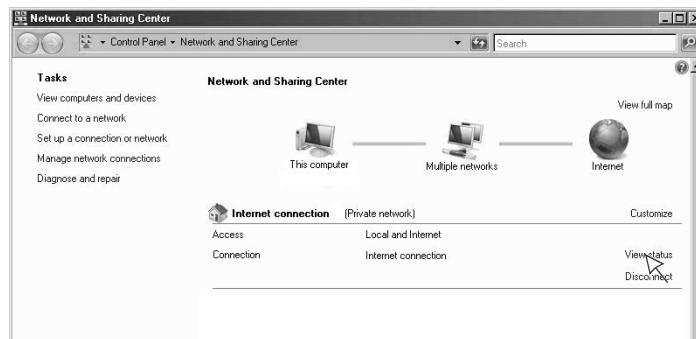
6. Click **Network and Sharing Center** or the active connection.



Windows Vista

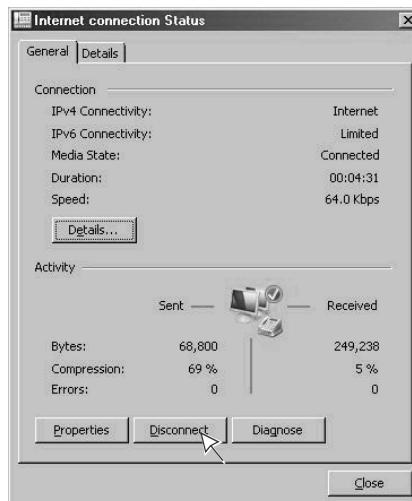
- To disconnect the Internet connection, click **Disconnect**.

To get more information about the Internet connection, click **View status**.



The opened dialogue displays information such as how long an Internet connection has been active and how much data has already been transmitted.

- To disconnect the Internet connection, click **Disconnect**.



Windows 7

This section describes how to install the USB, CAPI-2.0 and CoNDIS-WAN drivers (driver version as of 4.00.XX) on 32-/64-bit Windows 7 as well as how to install the TAPI driver on 32-bit Windows 7 (Auerswald Mega Disk as of version 5.95) and 64-bit Windows 7 (Auerswald Mega Disk as of version 6.02).

In addition, this section also describes how to set up and configure an Internet connection on 32-bit or 64-bit Windows 7 using a dial-up network to dial into the Internet.

Installing the USB, CAPI-2.0 and CoNDIS-WAN drivers

Note: *The three drivers are preinstalled before you connect the Auerswald USB device to the PC. Afterwards, the drivers are installed automatically when the Auerswald USB device is connected to the PC.*

Requirements

- Auerswald Mega Disk (version 5.95 or higher)
- PC with the following features:
 - Intel Pentium 1 GHz or compatible processor
 - RAM memory: 512 MB, recommended 1 GB
 - Operating systems: 32-bit Windows 7, 64-bit Windows 7
 - USB port according to USB specification 1.1 or 2.0
 - CD-ROM or DVD drive
 - Mouse or compatible pointer device
 - SVGA graphic controller with a resolution of 800 x 600; recommended 1024 x 768 and 65536 colours (16 bit)

Note: *Sometimes a USB driver update is necessary for your mainboard. If necessary, ask the vendor of the mainboard.*

Steps to take

1. Insert the CD (Auerswald Mega Disk) into the CD-ROM or DVD drive.

Windows 7

2. Click **Run autostart.exe**.



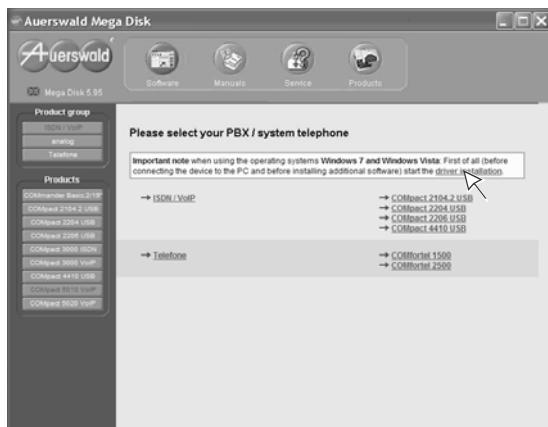
3. Select the country where you use your PBX and select the language. Click **next**.



4. Click **next**.



5. Click **driver installation**.



6. Select the language.
Click **OK**.



Windows 7

7. Enable the check boxes of the drivers to be installed.
Click **Next**.
8. Read the license agreement. Afterwards, click **I accept the terms of the license agreement**.
Click **Next**.

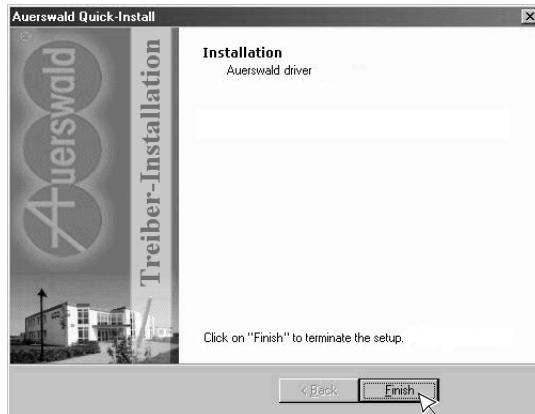


9. Enable the check box **Always trust software from Auerswald GmbH & Co. KG**.
Click **Install**.



The USB, CAPI and CONDIS-WAN drivers are preinstalled.

10. Click **Finish**.



11. Connect the Auerswald USB device to the PC (see the Auerswald USB device manual).

The USB, CAPI and CoNDIS-WAN drivers are automatically installed.

12. If necessary, restart your computer after the drivers have been installed.

Installing the TAPI driver

Note: The TAPI driver installation has to be started manually.

Requirements

- Auerswald Mega Disk (for 32-bit Windows 7 version 5.95 or higher; for 64-bit Windows 7 version 6.02 or higher)
- Completed installation of the current USB driver (Auerswald Mega Disk as of version 5.95). See [page 77](#).

Windows 7

Steps to take

1. Insert the CD (Auerswald Mega Disk) into the CD-ROM or DVD drive.
2. Click **Run *autoplay.exe***.



3. Select the country where you use your PBX and select the language. Click **next**.



- Click the Auerswald USB device for which you would like to install the TAPI driver.



- Click **Auerswald TAPI driver**.

The installation wizard for installing the TAPI driver opens.

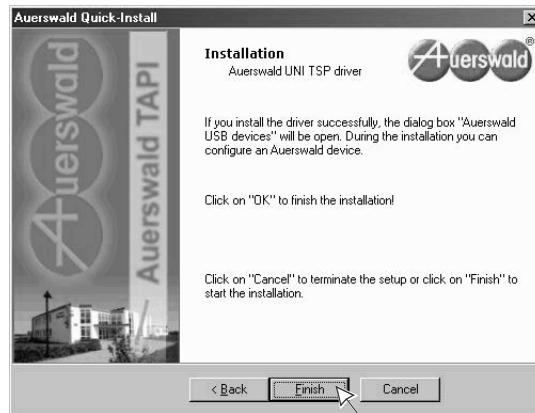
- Click **Next**.

Read the license agreement. Afterwards, click **I accept the terms of the license agreement**.

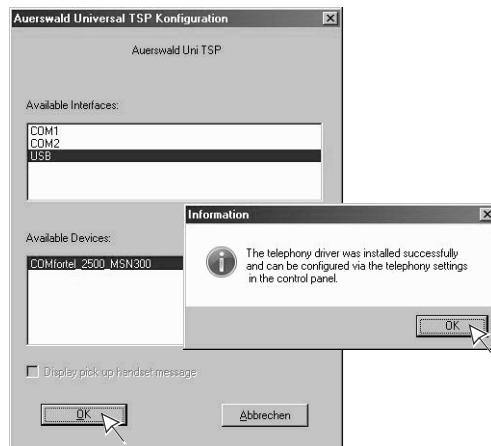
Click **Next**.



7. Click **Finish**.



8. Select the interface and the Auerswald USB device which will be used with the TAPI driver and click **OK**.
Click **OK**.



9. If necessary, restart your computer.

Setting up the Internet connection

Note: If you would like to establish an Internet connection using the software provided by your Internet service provider (for example, T-Online), refer to the documentation for the software in question.

Requirements

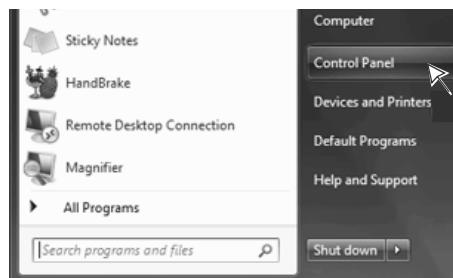
- The following information of an Internet service provider (ISP) of your choice:
 - your user name and your password
 - your ISDN dial-up number
 - some protocol characteristics like host name, domain name, address of a domain name server, IP address, gateway address (will automatically be assigned by most providers)

Note: Some Internet service providers require you to register in order to receive an Internet user account.

- Active USB connection between the USB device and the computer
- Completed installation of the USB, CAPI-2.0 and CoNDIS-WAN drivers. See [page 77](#).
- Completed settings for the Auerswald USB device in question. See section “Preparing Internet access” starting on [page 91](#).

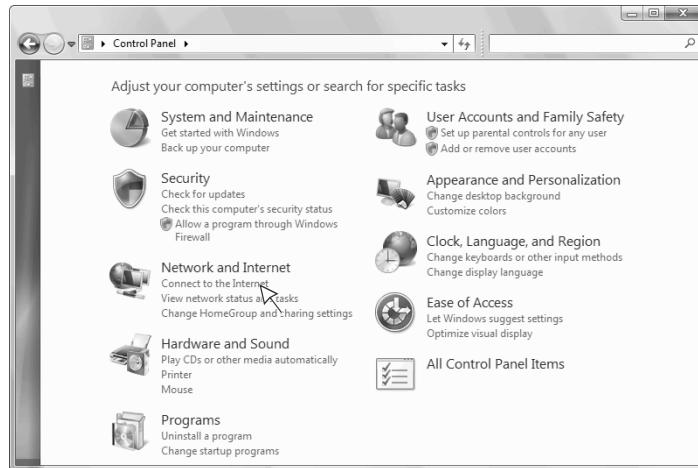
Steps to take

1. Click **Start** and **Control Panel**.



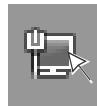
Windows 7

2. Click **Connect to the Internet**.



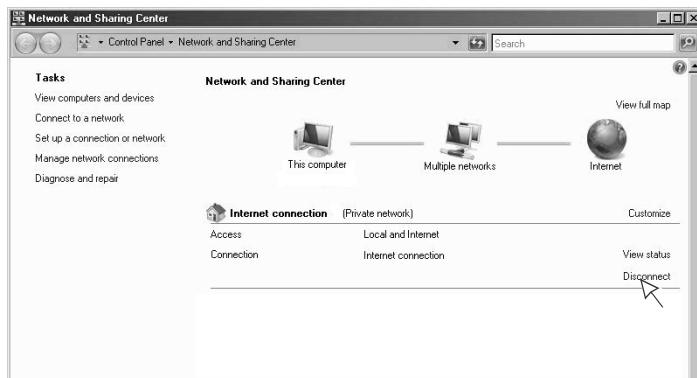
Further setup is similar to setting up the Internet connection on Windows Vista (see step 3 to 8 on [page 67](#) and the following).

3. To disconnect the Internet connection, click the connection symbol in the Windows task bar (to the left next to the time).



4. Click **Open Network and Sharing Center** or the active Internet connection.

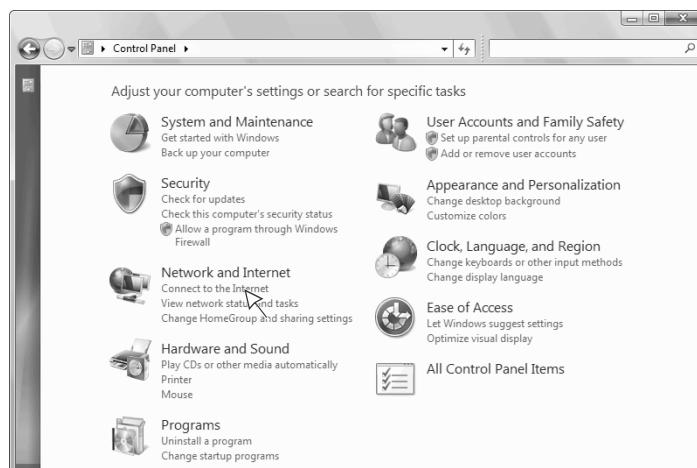
5. Click **Disconnect**.



Configuring the Internet connection

Steps to take

1. Click **Start** and **Control Panel**.
2. Click **Connect to the Internet**.



3. Click the connection you set up (In this case, “Internet connection”).
Click **Next**.

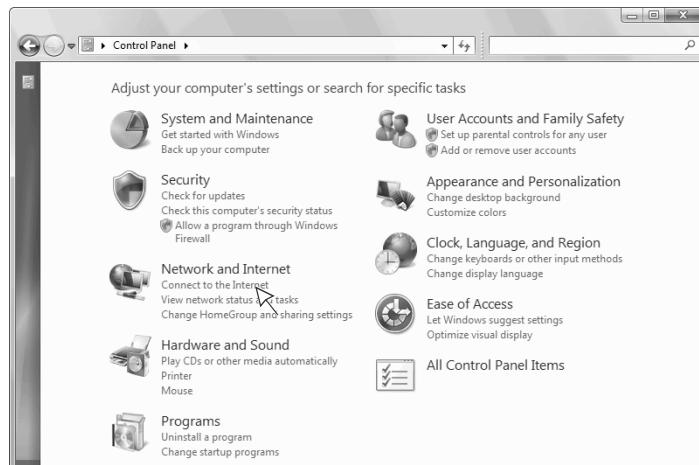
Further configuration is similar to configuring the Internet connection on Windows Vista (see step 3 to 6 on [page 71](#) and the following).

Dialling into the Internet

Steps to take

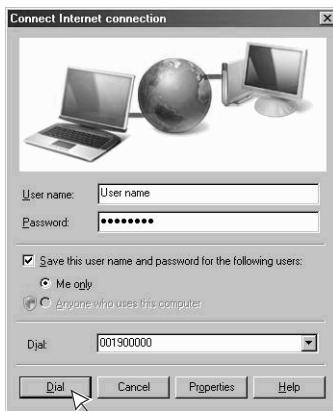
Note: If you have received a CD from your Internet service provider, insert it into the CD drive and follow the instructions. If necessary, adjust the procedure described here.

1. Click **Start** and **Control Panel**.
2. Click **Connect to the Internet**.



3. Click the connection you set up (In this case, “Internet connection”).
Click **Next**.

4. Under **User name**, enter the user name offered by your Internet service provider.
Under **Password**, enter the password offered by your Internet service provider.
Click **Dial**.



The Internet connection is established.

5. Open an Internet browser (for example, Internet Explorer or Mozilla Firefox). You can use this program to view pages on or download files from the Internet.

The connection symbol in the Windows task bar (to the left next to the time) indicates whether the connection is active.

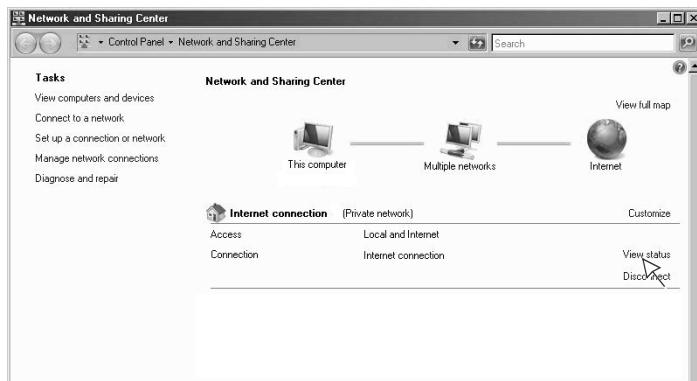
6. To get more information or to disconnect the connection, click the symbol in the Windows task bar (to the left next to the time)



7. Click **Open Network and Sharing Center** or the active Internet connection.

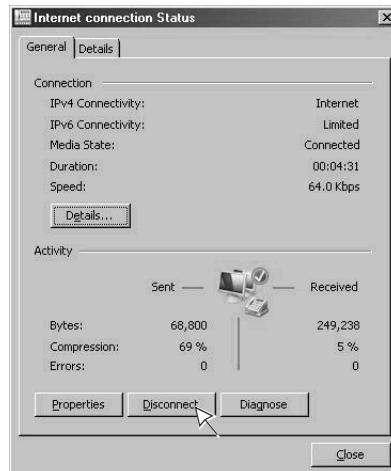
8. To disconnect the Internet connection, click **Disconnect**.

To get more information about the Internet connection, click **View status**.



The opened dialogue displays information such as how long an Internet connection has been active and how much data has already been transmitted.

9. To disconnect the Internet connection, click **Disconnect**.



Preparing Internet Access

To set up Internet access, several telephone numbers need to be entered into the system configuration. To do this, settings must be configured for the corresponding PBX in the configuration program COMset.

This section uses examples to describe which settings need to be configured. In this case, the settings made depend on the Auerswald USB device used.

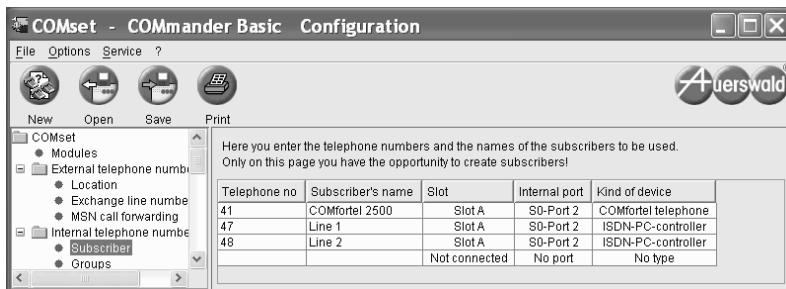
Setting up the COMfortel 2500 (example)

Requirements

- Completed installation of the current USB driver (Auerswald Mega Disk as of version 5.81; Windows 7: Auerswald Mega Disk as of version 5.95). See [page 8](#) for Windows 2000, [page 33](#) for Windows XP, [page 55](#) for Windows Vista, [page 77](#) for Windows 7.
- Completed installation of the configuration program COMset required for configuring the PBX.

Steps to take

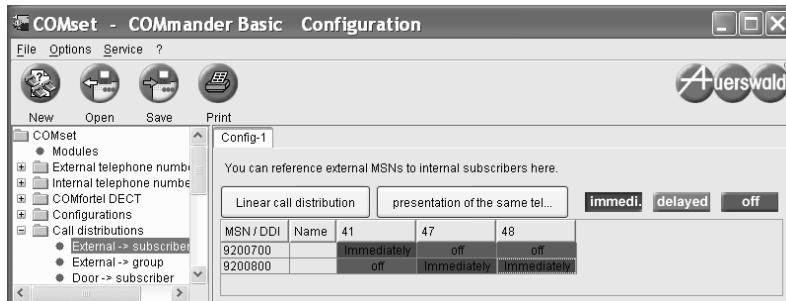
1. Under **Internal telephone numbers**, set up to two telephone numbers as an “ISDN PC controller” device (on the same internal S₀ port as the COMfortel 2500). Use these telephone numbers for the functions indicated here in the example.
 - ISDN PC controller (line 1): Internet access No. 1 for channel bundling
 - ISDN PC controller (line 2): Internet access No. 2 for channel bundling



2. Assign external telephone numbers to the internal telephone numbers under **Call distributions**. To do this, both internal telephone numbers for Internet access with channel bundling must be assigned the same external telephone number. This must also be transmitted to the Internet service provider (settings via the button **presentation of the same tel...** or the page **Subscriber settings ... Telephone number -> External**).

Preparing Internet Access

3. Assign the telephone its own external telephone number.



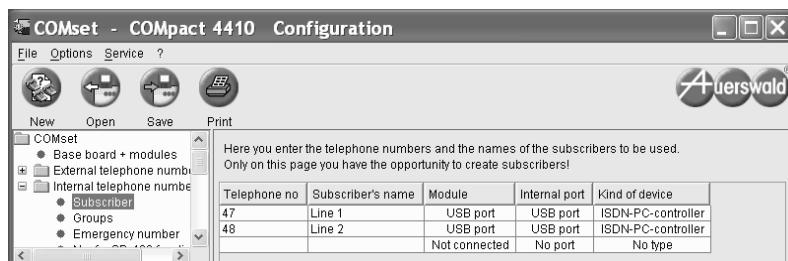
Setting up the COMpact 2104.2/2204/2206/4410 USB (example)

Requirements

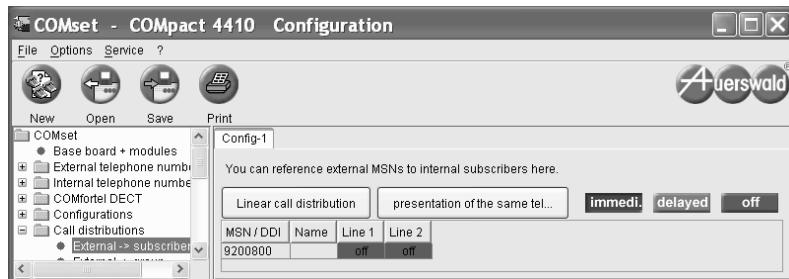
- Completed installation of the current USB driver (Auerswald Mega Disk as of version 5.81; Windows 7: Auerswald Mega Disk as of version 5.95). See [page 8](#) for Windows 2000, [page 33](#) for Windows XP, [page 55](#) for Windows Vista, [page 77](#) for Windows 7.
- Completed installation of the configuration program COMset required for configuring the PBX.

Steps to take

1. Under **Internal telephone numbers**, configure up to two telephone numbers as an “ISDN PC controller” device on the USB port. Use these telephone numbers for the functions indicated here in the example.
 - ISDN PC controller (line 1): Internet access No. 1 for channel bundling
 - ISDN PC controller (line 2): Internet access No. 2 for channel bundling



2. Assign an external telephone number to the internal telephone numbers under **Call distributions**. To do this, both internal telephone numbers for Internet access with channel bundling must be assigned the same external telephone number. This must also be transmitted to the Internet service provider (settings via the button **presentation of the same tel...** or the page **Subscriber settings ... Telephone number -> External**).



Glossary

This section explains the most important terms used in this manual.

CAPI-2.0 driver

It is possible to imitate the functions of an ISDN PC controller with your Auerswald USB device:

- COMPact 2104.2 USB, COMPact 2204 USB, COMPact 2206 USB, COMPact 4410 USB imitate functions of an “ISDN PC controller” on the USB port
- COMfortel 2500 imitates functions of an “ISDN PC controller” on the internal U_{P0} or S₀ port

To be able to use this so-called CAPI interface, you need the Auerswald CAPI-2.0 driver.

CoNDIS-WAN driver

During the installation of the CAPI-2.0 driver, the Auerswald CoNDIS-WAN driver is also installed on your computer. This is an updated NDIS-WAN driver (see [NDIS-WAN driver](#)).

Channel bundling

Channel bundling is supported by your Auerswald USB device. In this case, the Internet access connection is established over two B-channels. They are bundled in order to achieve a higher data transmission rate.

NDIS-WAN driver

This driver is necessary to establish a connection to the Internet. Your Auerswald USB device operates like an ISDN network controller in a network of many different computers – the Internet.

(NDIS-WAN is a standard for the connections of network controllers to the corresponding protocols. NDIS = Network-Device-Interface-Specification; WAN = Wide-Area-Networking).

TAPI driver

The TAPI driver enables TAPI applications via the USB interface of the Auerswald USB device (TAPI=Telephony Application Programming Interface). This way, you can control the device using different Windows applications which use the TAPI interface to make the PC dial a telephone number, for example. Applications of Windows 2000, 32-bit Windows XP, Windows Vista and Windows 7 are supported. The TAPI operation mode will automatically be configured when the corresponding application starts.

USB driver

You are absolutely in need of the Auerswald USB driver if you connect your Auerswald USB device to the USB interface of a PC even if you only want to configure the device via this interface.

Index

A

Auerswald USB devices 5

C

CAPI-2.0 driver (glossary) 94

Channel bundling

on Windows 2000 27

on Windows Vista 72

on Windows XP 48

Channel bundling (glossary) 94

CoNDIS-WAN driver (glossary) 94

Configuring the Internet connection

on Windows 2000 27

on Windows 7 87

on Windows Vista 70

on Windows XP 51

D

Dialing into the Internet

on Windows 2000 30

on Windows 7 88

on Windows Vista 74

on Windows XP 52

Dial-up network

on Windows 2000 19

on Windows 7 85

on Windows Vista 65

on Windows XP 44

Driver installation

on Windows 2000 8

on Windows 7 77

on Windows Vista 55

on Windows XP 33

G

Glossary 94

I

Installing the CAPI-2.0 driver

on Windows 2000 11

on Windows 7 77

on Windows Vista 58

on Windows XP 36

Installing the CoNDIS-WAN driver

on Windows 7 77

on Windows Vista 58

on Windows XP 36

Installing the NDIS-WAN driver

on Windows 2000 11

Installing the TAPI driver

on Windows 2000 11

on Windows 7 81

on Windows Vista 58

on Windows XP 36

Installing the USB driver

on Windows 2000 8

on Windows 7 77

on Windows Vista 55

on Windows XP 33

Internet connection

on Windows 2000 19

on Windows 7 85

on Windows Vista 65

on Windows XP 44

M

Minimum requirements PC

Windows 2000 8

Windows 7 77

Windows Vista 55

Windows XP 33

Misuse of PBX functions 6

N

NDIS-WAN driver (glossary) 94

P

Password 19, 44, 65, 85

Proper use 5

Protection against dialer programs 6

Provider 19, 44, 65, 85

R

Requirements for Internet connection

on Windows 2000 19

on Windows 7 85

on Windows Vista 65

on Windows XP 44

Index

S

Safety information	6
Setting up the Internet connection	
on Windows 2000	19
on Windows 7	85
on Windows Vista	65
on Windows XP	44
Settings for the Internet access	91

T

TAPI driver (glossary)	94
------------------------------	----

U

USB devices	5
USB driver (glossary)	94
Use of the drivers	5
User name	19, 44, 65, 85

W

Windows 2000	8
Windows 7	77
Windows Vista	55
Windows XP	33

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