



CCU-550 Modem User Guide

FCC RF EXPOSURE COMPLIANCE

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this modem complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the modem, or result in violation of FCC regulations.

This CDMA 1xEVDO USB data modem has been tested for FCC RF exposure hand and body SAR compliance with the CCU-550 USB dongle modem form factor. In order to comply with FCC RF exposure requirements, the CDMA 1xEVDO USB data modem must be operated with the CCU-550 USB dongle modem form factor. The use of this device in any other type of host configuration may not comply with FCC RF exposure requirements and should be avoided. During operation, a 1.5cm separation distance should be maintained between the antenna, whether extended or retracted, and the user's/bystander's body (excluding hands, wrists, feet, and ankles) to ensure FCC RF exposure compliance.

CAUTION

Change or modification to the modem without the express consent of CMOTech Co., Ltd. voids the user's authority to use the equipment. This equipment has been tested and found to comply with the limits pursuant to Part 22 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in an appropriate installation. This equipment generates, uses, and can radiate radio frequency energy and, if not used in accordance with instructions, can cause harmful radiation to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference in radio and television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation distance between the equipment and the receiver

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced Radio / TV technician for help.



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CAUTION

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful unacceptable interference to radio and television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation distance between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced Radio/TV technician for help.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions ; (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

POTENTIALLY UNSAFE AREAS

Posted facilities: Turn off this device in any facility or area when posted notices require you to do so.

Blasting areas: Turn off your modem where blasting is in progress.

Observe restrictions and follow any regulations or rules.

Potentially explosive atmospheres: Turn off your modem when you are in any area with a potentially explosive atmosphere. Obey all signs and instructions. Sparks in such areas could cause an explosion or fire, resulting in bodily injury or death.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include:

- fuelling areas such as gas or petrol stations

- below deck on boats
- transfer or storage facilities for fuel or chemicals
- vehicles using liquefied petroleum gas, such as propane or butane
- areas when the air contains chemicals or particles such as grain, dust or metal powders
- any other area where you would normally be advised to turn off your engine

It is recommended that this manual be read in conjunction with all other supporting documentation.



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CCU-550 Modem Install

Setup

Insert installation CD (supplied with CMOTech Data Modem) into the CD-ROM drive.

This will automatically start the installation and install the required drivers plus CMOTech Data Modem Application software.

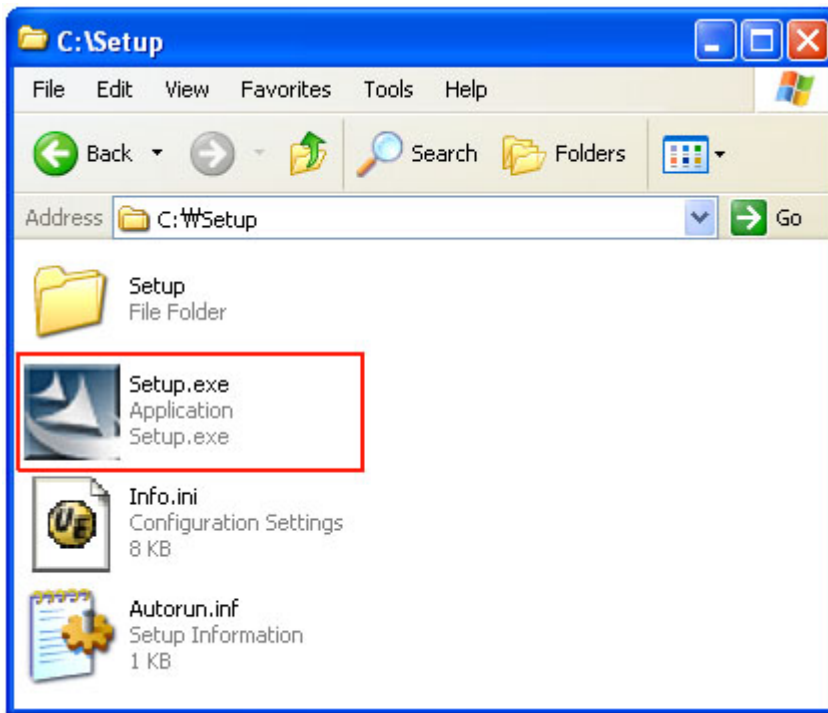
Do not connect CMOTech Data Modem into your laptop/PC yet.

The installation procedures are the Windows 2000 and Windows XP.

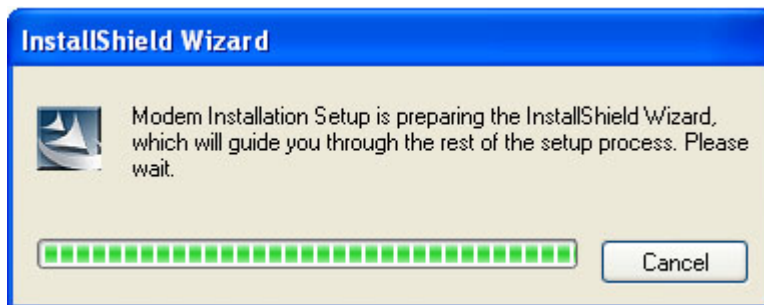
Start setup

If the auto run does not start after inserting the CD, please double-click on "Setup.exe" file on CD ROM to start the installation.

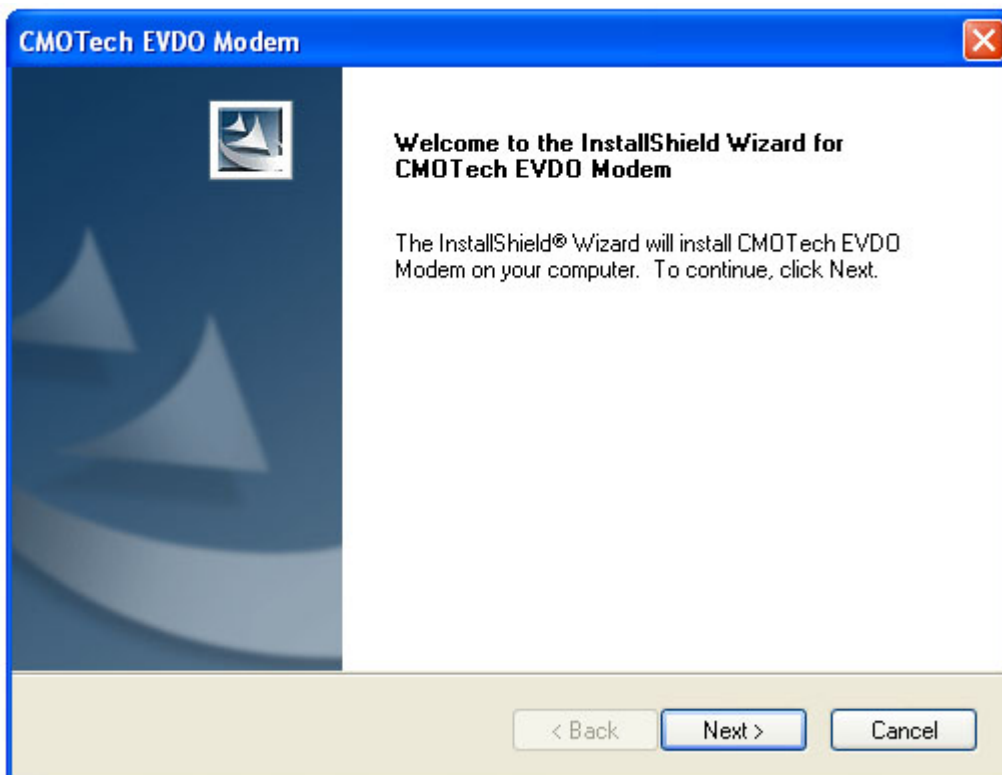
If you have already inserted your Modem into your PC, remove the Modem and double-click "Setup.exe"



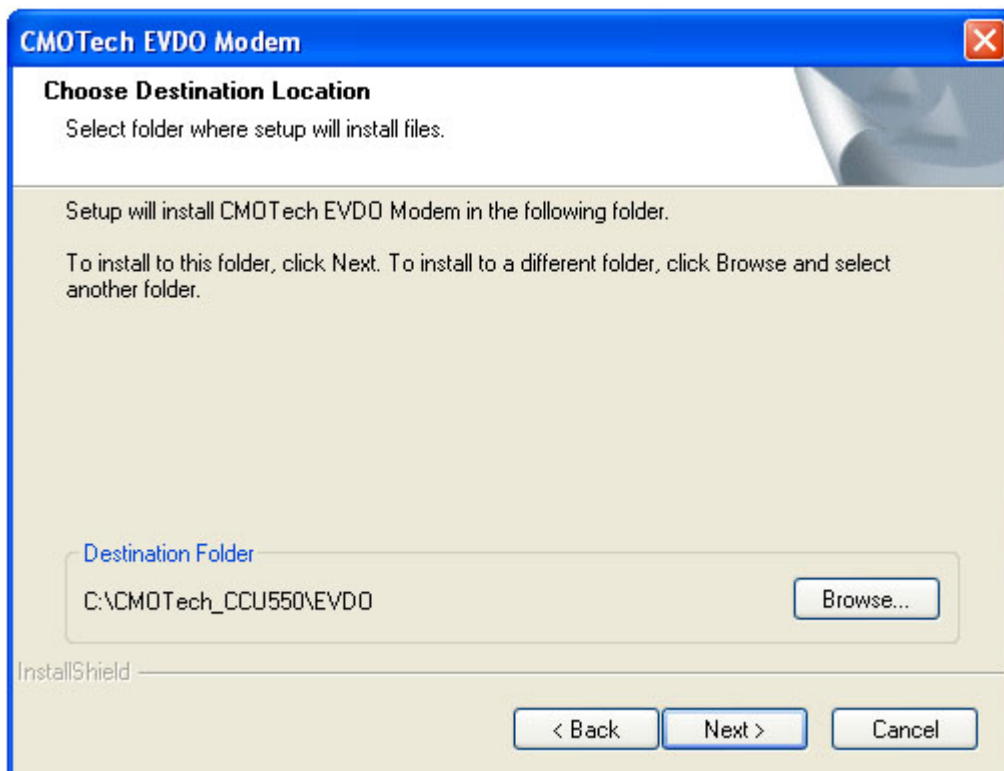
Start Auto Run



Install Shield Wizard... click 'next'

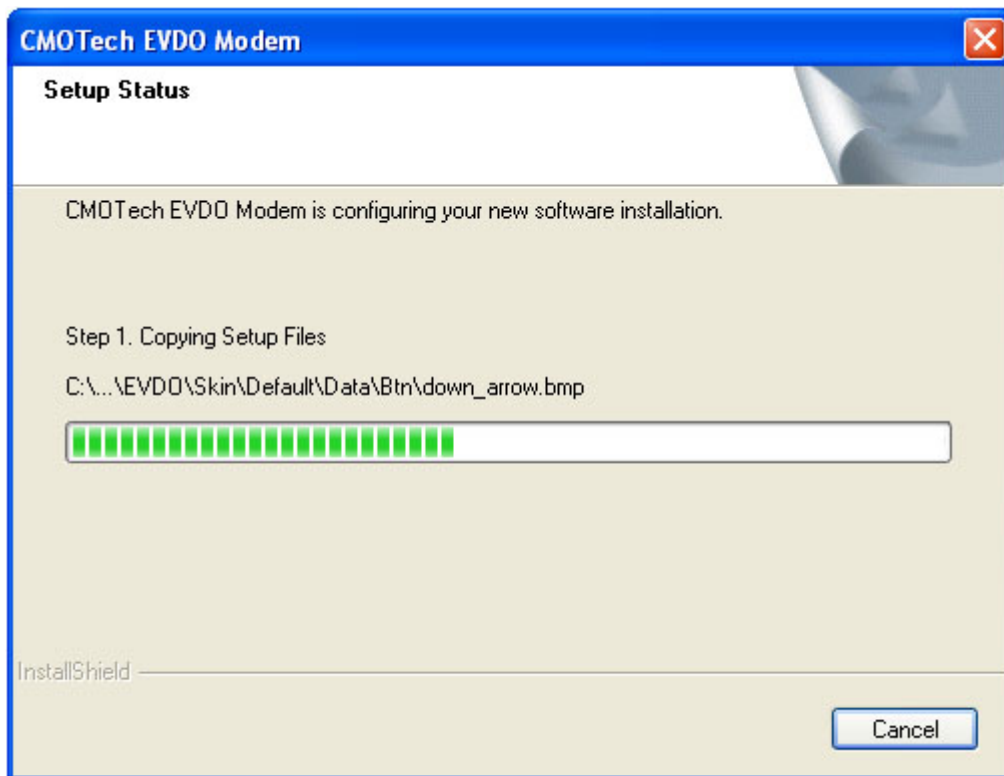


Choose the installation directory and click "Next" to continue.

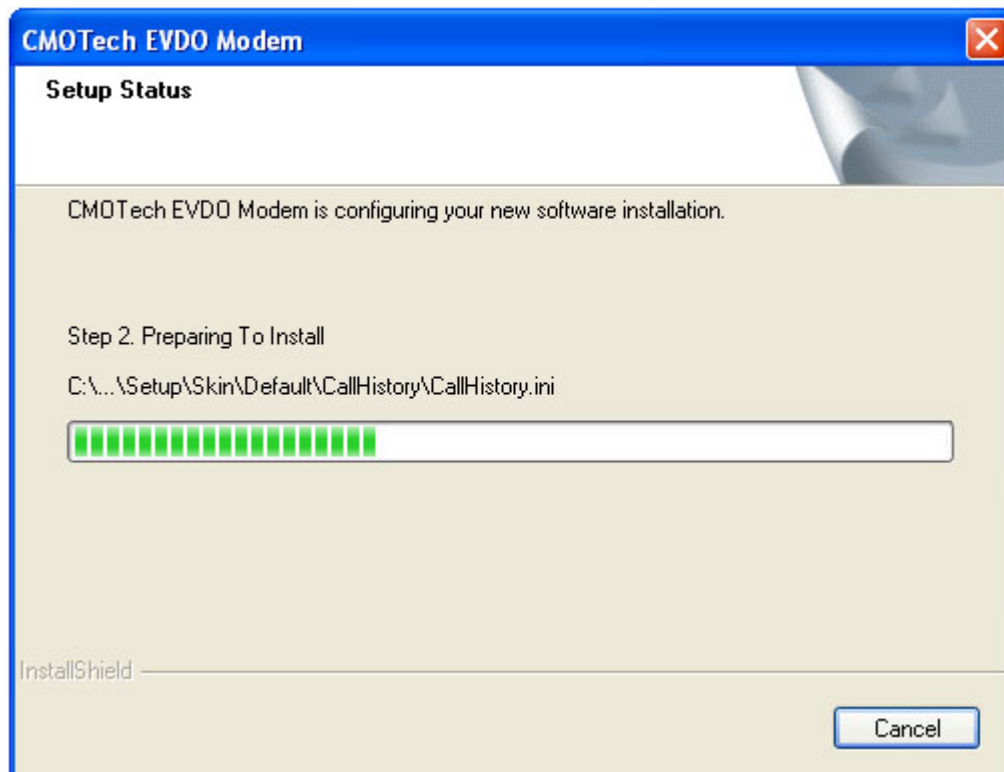


CMOTech Modem is configuring your new software installation.

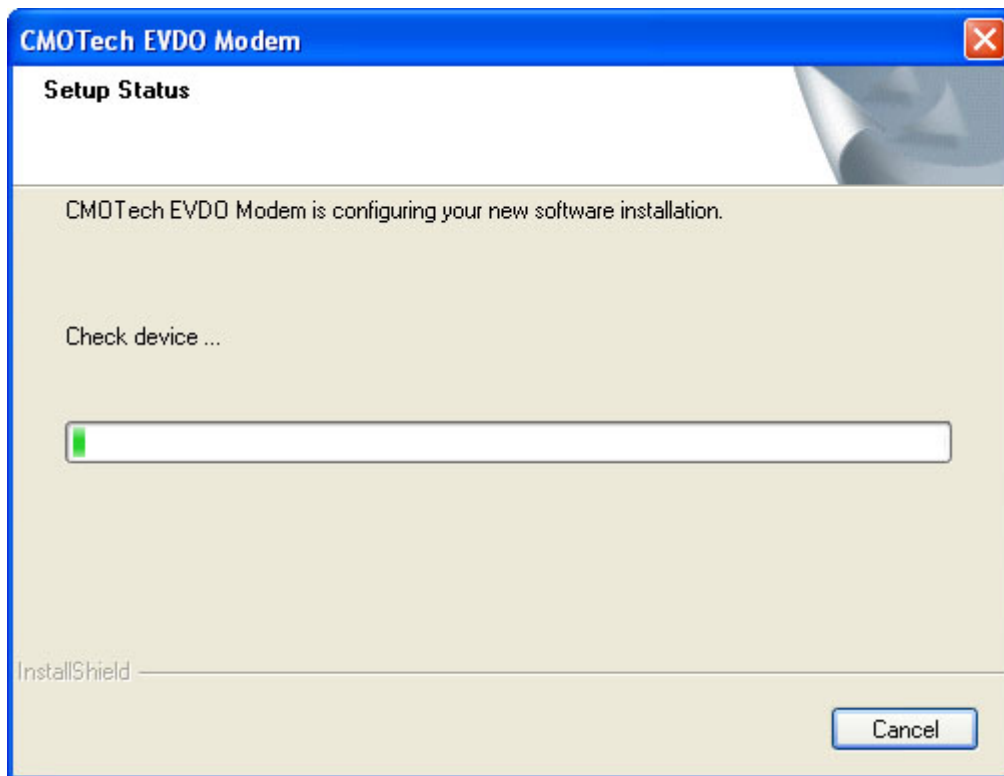
Copying Step1 File



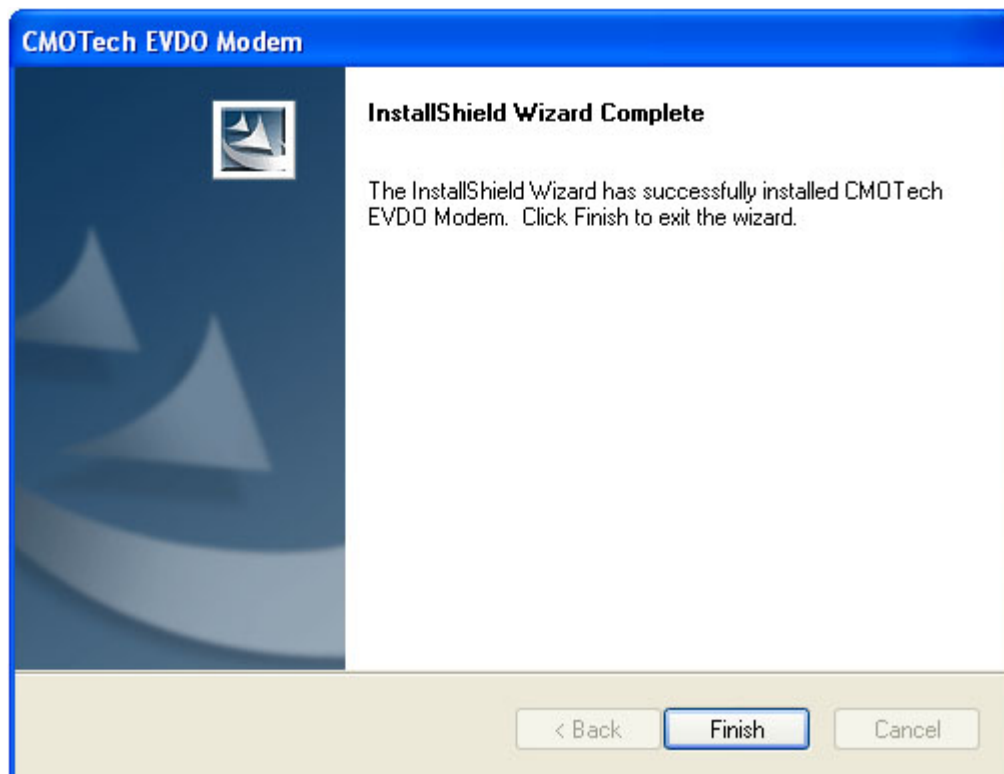
Copying Step2 File



Check device



Installation Complete. Click "Finish" and remove the installation CD.





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Insert Modem

Please Insert Modem

On Window 2000

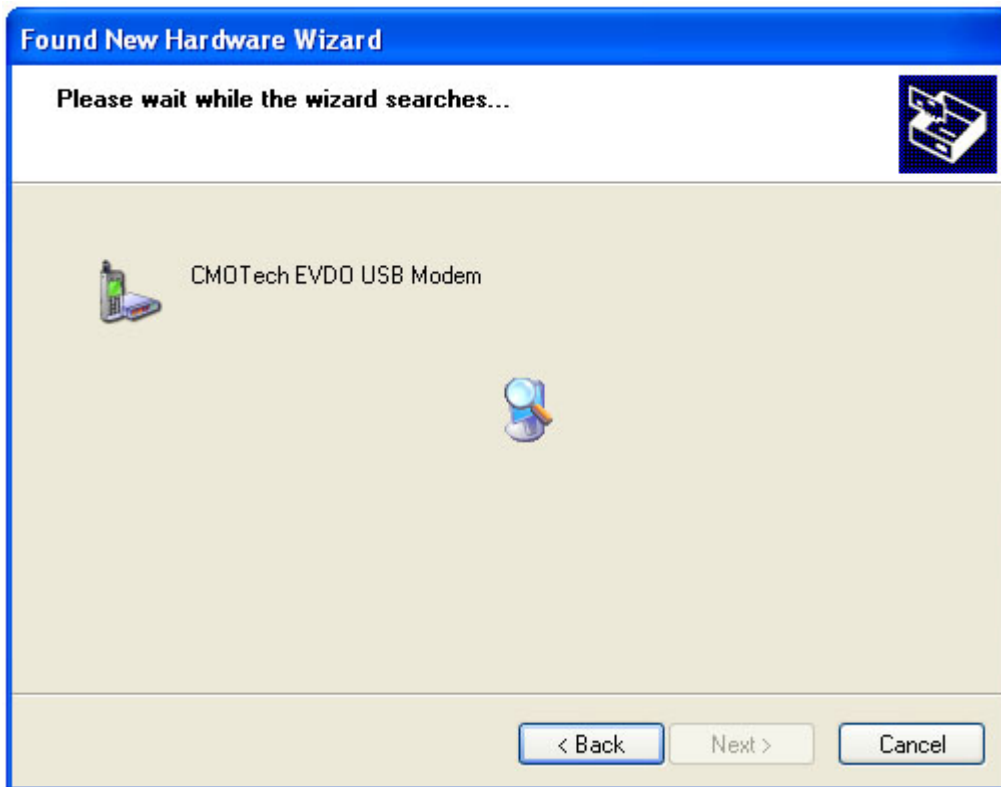
As inserting Modem on Window 2000, there will not be any window and users can run applications after the device is detected.

On Window XP

If your operation system is XP on inserting Modem, you can see "Find New Hardware" Dialog.

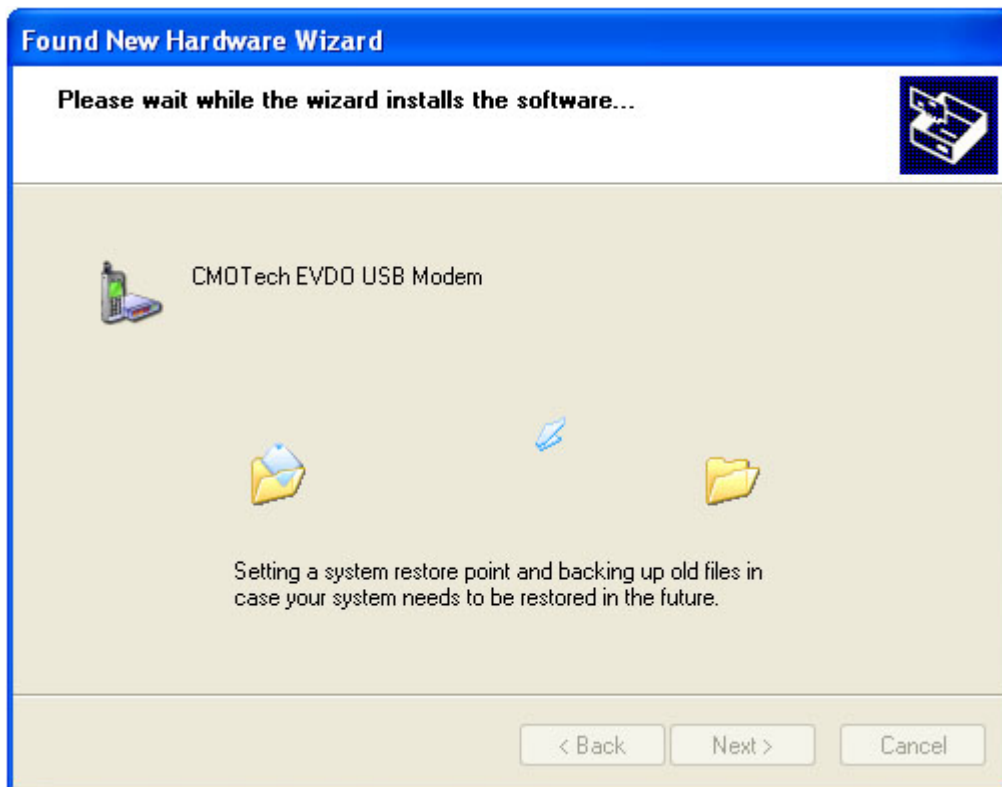


Click 'Next' button.

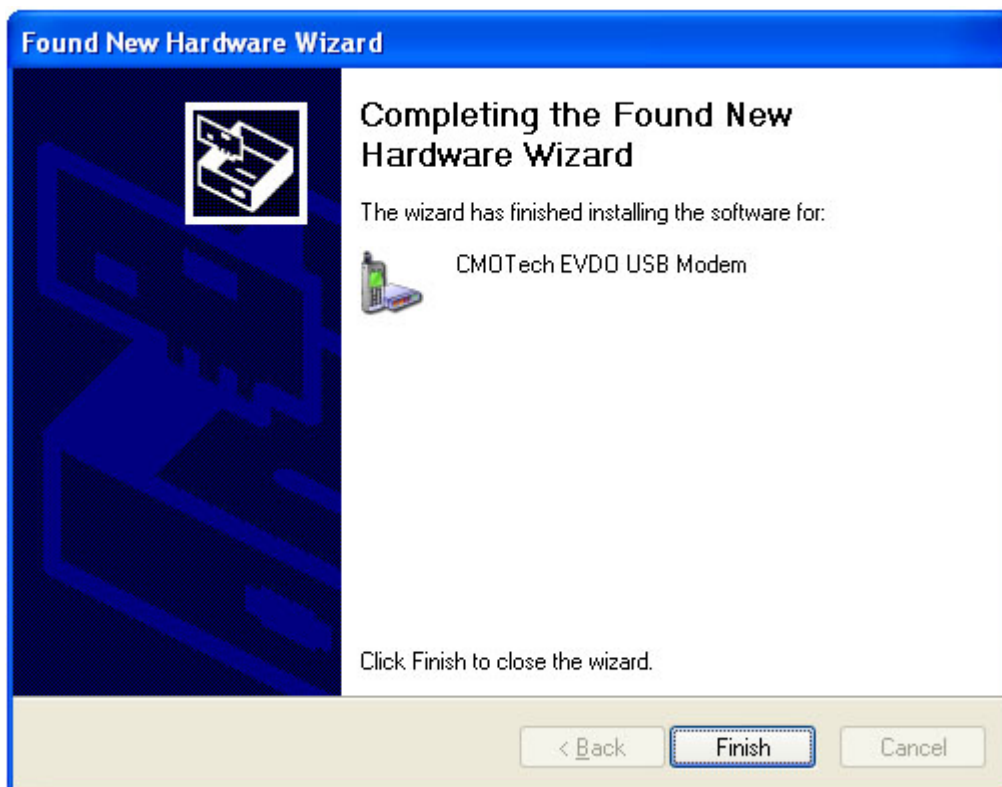


Click 'Continue Anyway' button.





Click 'Finish' button.





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Using the CCU-550 Modem Application Software

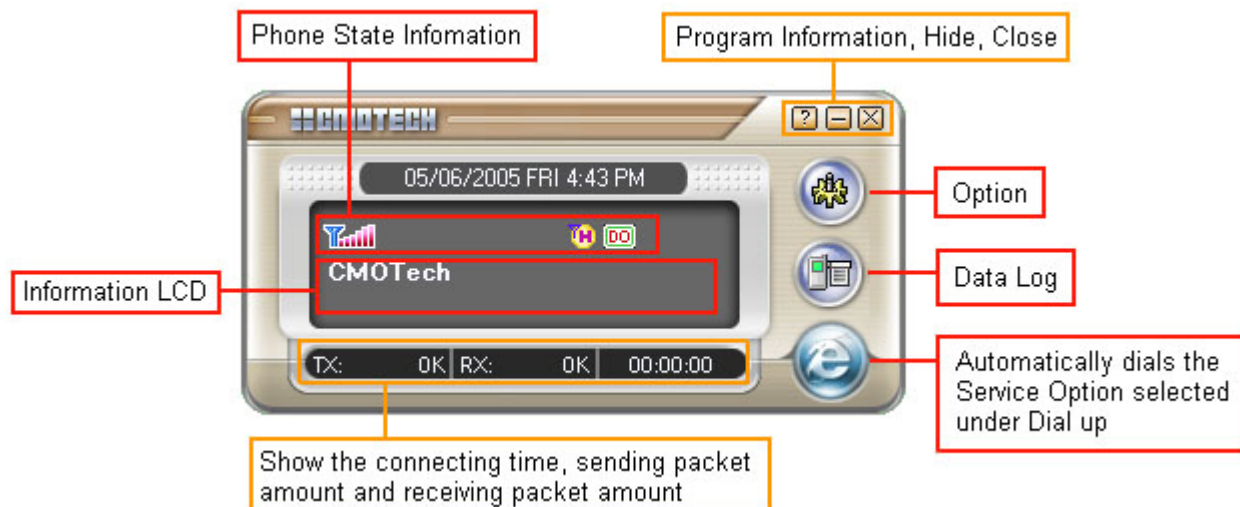
During this installation a Shortcut will have been placed on your desktop for the CMOTech Data Modem Application software.



Note : If the modem is connected to the Laptop/PC via serial port, the user will have to select the serial port initially when the User Interface software starts up.

On auto start of the Application Software, the first screen you will see Main window.

Main



Indicator state Icons

Icon	Meaning	Icon	Meaning
	No Signal		Roaming
	Antenna / Signal Strength		Coverage Icon. CDMA 1x available
	Current High Data Rate mode selected : Hybrid Mode (1xEV-DO Preferred) DEFAULT. The modem will automatically look for the highest speed network available in this mode.		Coverage Icon. IS95 available only
	Current High Data Rate mode selected: CDMA 1X only Mode		Coverage Icon. 1xEV-DO available

☐	Current High Data Rate mode selected: 1xEV-DO only Mode.	☐	Active Data connection
		☐	Dormant Data connection

Taskbar Icon



When the Application Software is running in the background, the Windows taskbar will show an icon as above.

To maximize the Application Software, double click on the icon.



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Dial up Network



Connection

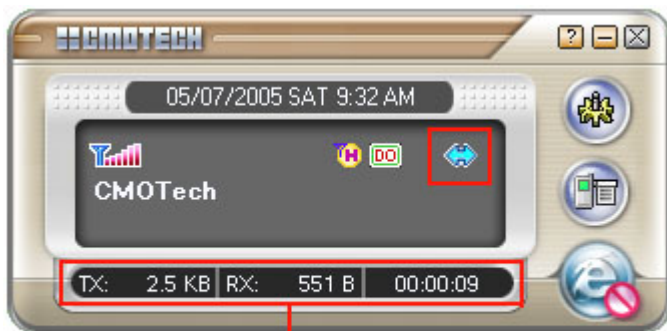
Clicking the 'Connect' button. The Application Software will start dialing the Service Option selected under dial-up when the "Connect" button is clicked (The "Connect" button can be clicked on the main window).



Verifying User.



Registering your computer on the network.



Display connecting information.

You can see above window's right blue icon. This icon show on connection.

Warning : If you install Windows XP service pack 2, you must turn off firewall in Window security center.

If you try connecting with turn on firewall, you can see connecting fail.

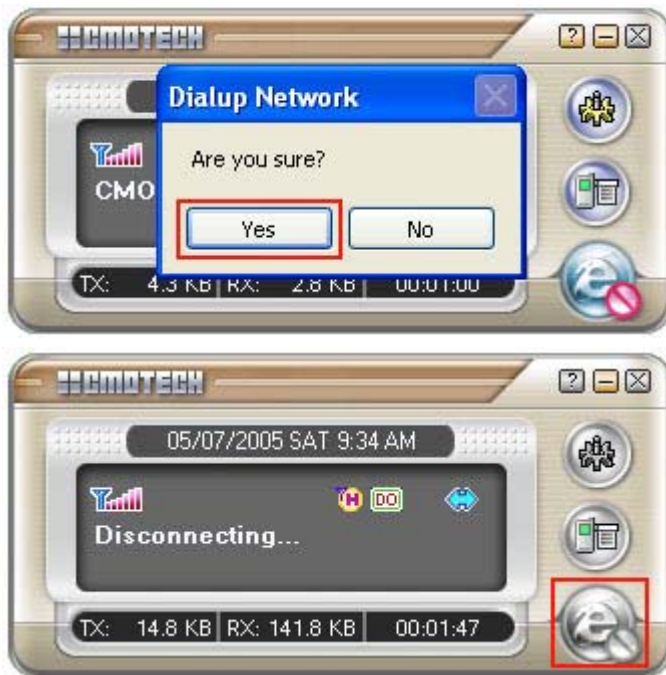
Click the Windows taskbar's shield - shaped Yellow icon, you can see Window Security center

To Disconnect

Clicking the disconnect button on the Main window or Dial up slide window, will disconnect the dialup connection and the modem will switch to idle mode.



Clicking the 'Yes' button.



Active and Dormant state

It is on Active state when an active icon  appears on the window. If having no data transmission during Dialup, it goes to Dormant state.

Users can discern that it is on Dormant state with an icon  displayed on the screen.

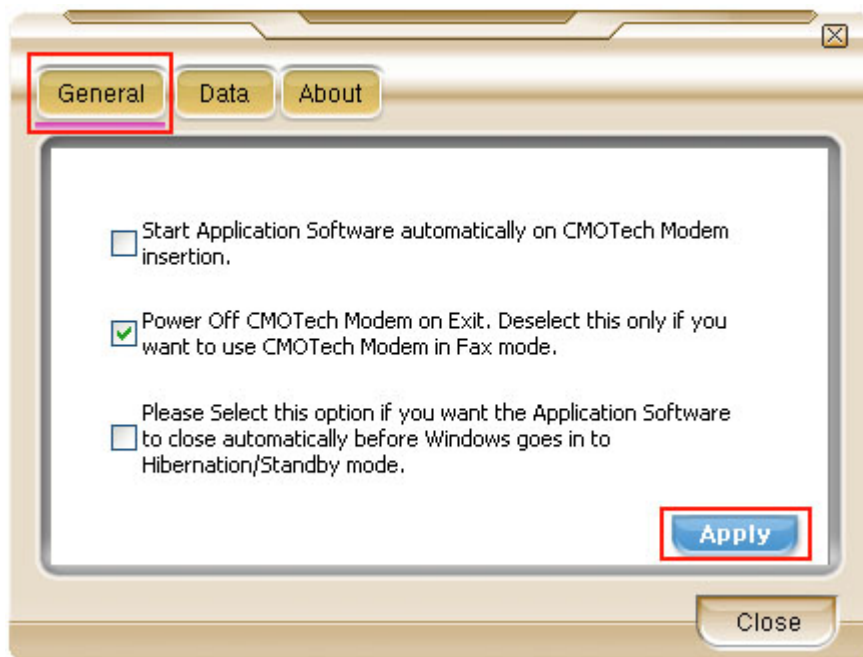


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Option

General



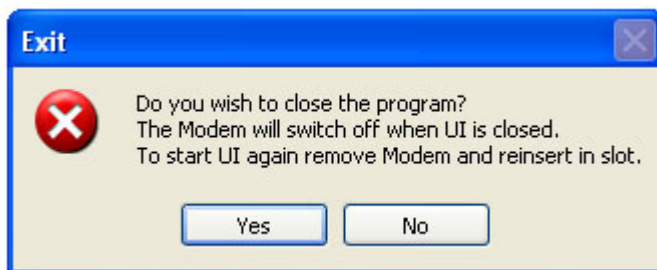
NOTE : The 'Apply' button must be clicked for any changes to take effect.

Application Software auto run : This Check box determines whether the Application Software starts automatically

when the Modem is connected. Check the check box and press 'Apply' button.

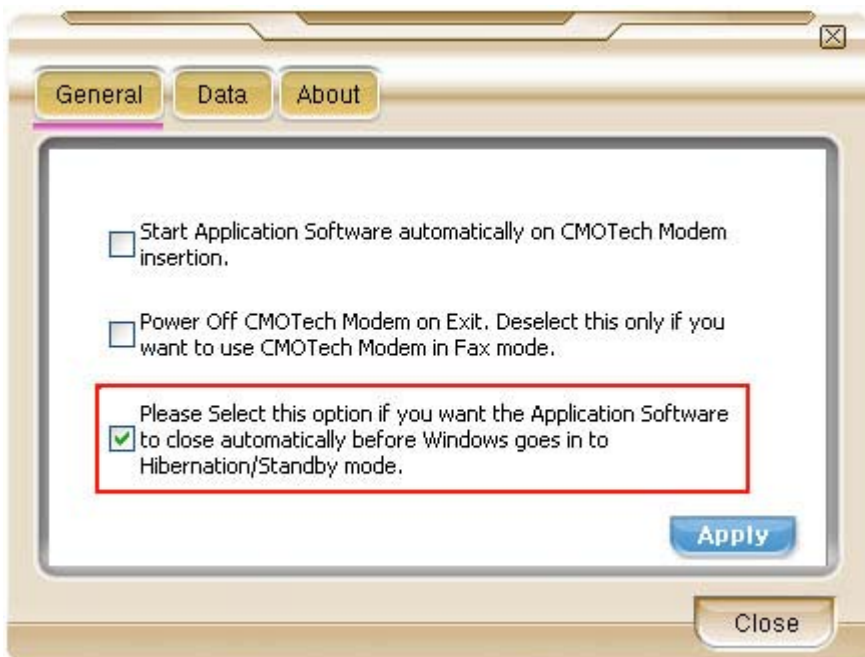


Power Control : When selected will switch the Modem off when the Application Software is closed. If de-selected the Modem stays on when Application Software is close.



Hibernation : With the Application Software running (idle). Windows will not hibernate or switch to standby mode.

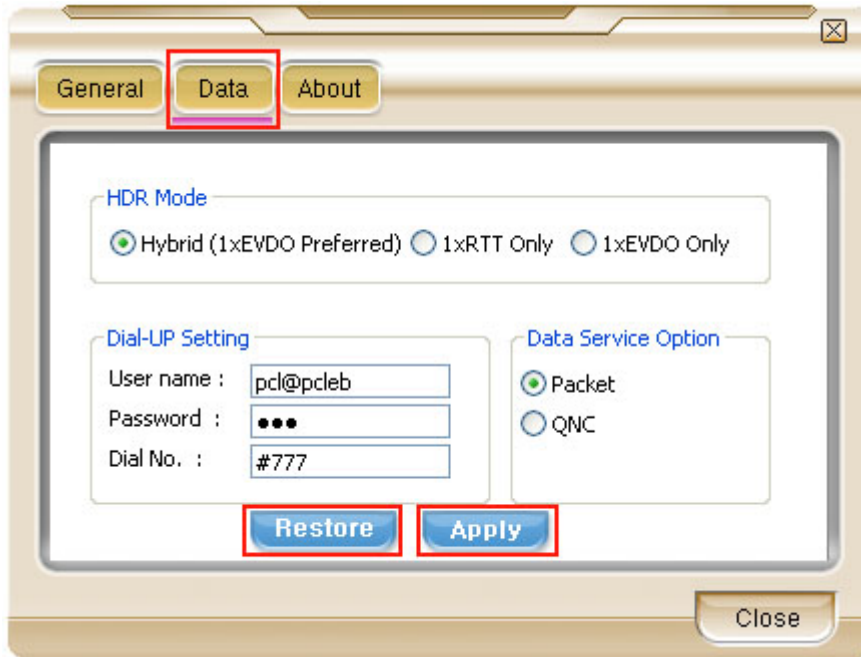
Please select this option under General tab to close UI automatically so that windows can hibernate or switch to standby.



Data

Connection setting

To Setting Dial-Up connection, click 'Option' button and click 'Data' button.



Also to change connecting type, click the radio Button.

NOTE : You can use Packet, QNC type in 1X current coverage. And can't use Packet type in IS 95 coverage.

Connecting is also possible to connect (Dial-up) by clicking the connect button on the main window without opening

the Dial-up setting window. When clicking the connect button, the last Service option will be used for dial up.

If the user changes the username or password and clicks Connect, the Application Software will store the new username and password.

To load the The default username and password select the 'Restore' button, and the 'Apply' button must be clicked.

Dial-up Networking - Packet

Always On is a CDMA 1x internet domain that applies to data (in Kilobytes) based charging packages.

This service allows you to remain connected to the internet all the time.

charges will apply to the amount of data sent and received with this domain.

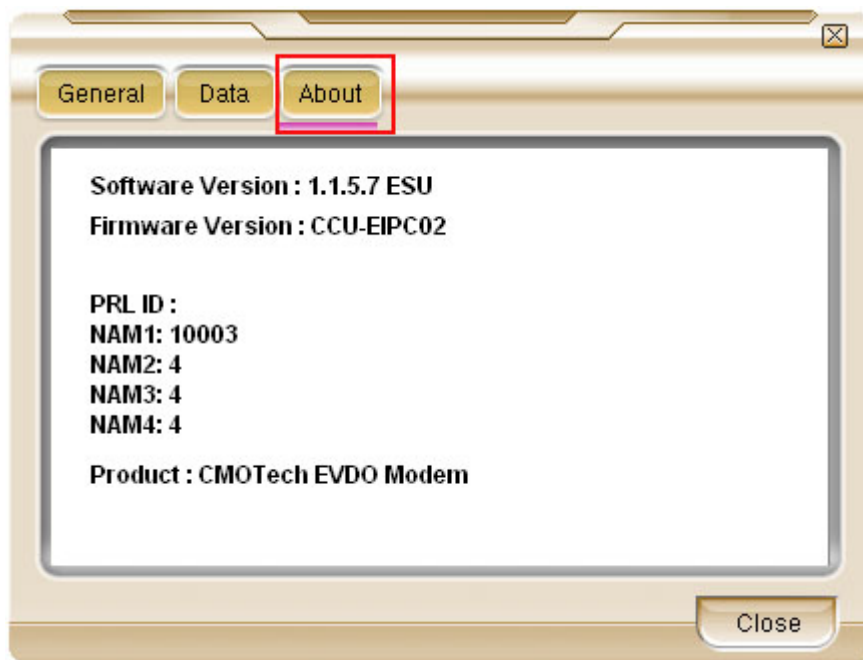
Dial-up Networking - QNC Standard.

When you are not within CDMA 1x coverage or you have not subscribed to CDMA 1x, you can still connect to operator's Standard Mobile internet Service using Quick Net Connect, provided you are within CDMA coverage.

Quick Net Connect (QNC) does not require a separate subscription

About

It displays Software/ Firmware Version, PRL ID as shown below.



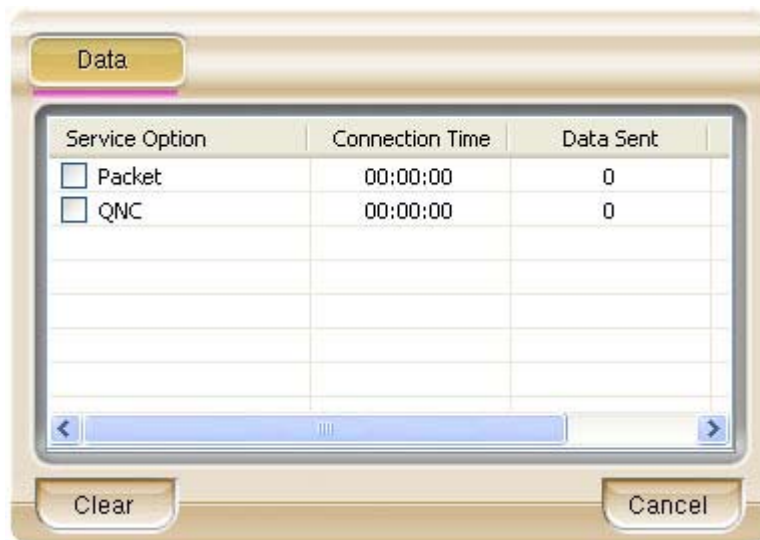
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Data Logs

Data Logs

The User Data Counter will continuously accumulate on each session and will only clear when "Clear Data Count" is clicked.



The image shows a 'Data' window with a table of service options and connection statistics. The table has three columns: 'Service Option', 'Connection Time', and 'Data Sent'. There are two rows of data: 'Packet' and 'QNC', both with a connection time of '00:00:00' and 'Data Sent' of '0'. Below the table is a scroll bar. At the bottom of the window are 'Clear' and 'Cancel' buttons.

Service Option	Connection Time	Data Sent
☐ Packet	00:00:00	0
☐ QNC	00:00:00	0



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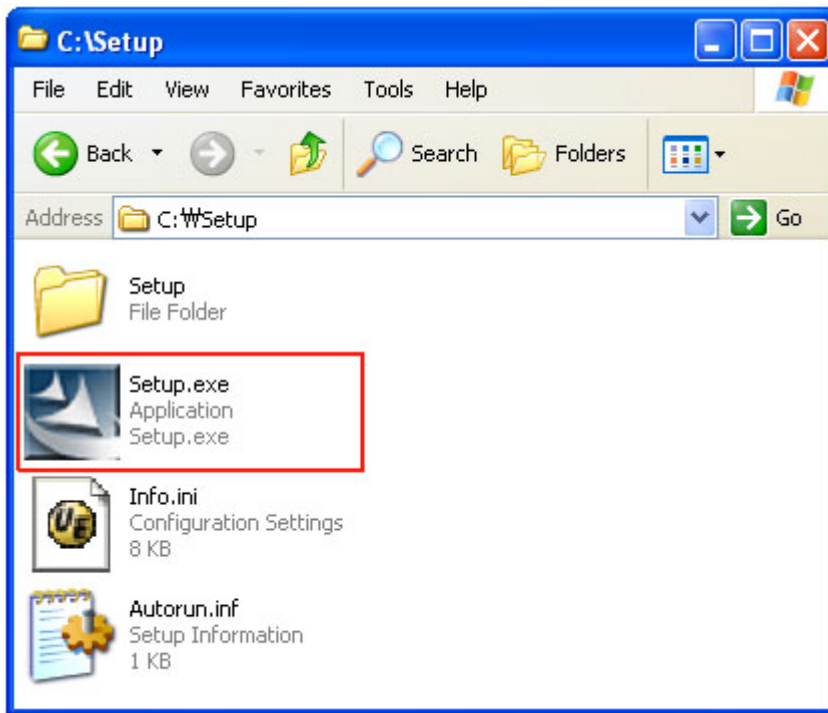
Uninstall

Uninstall CMOTech CCU-550 Modem

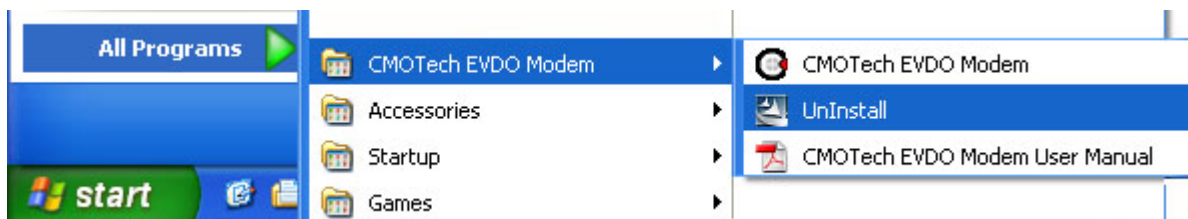
To uninstall CMOTech CCU-550 Modem driver, click "Uninstall".

Start uninstall

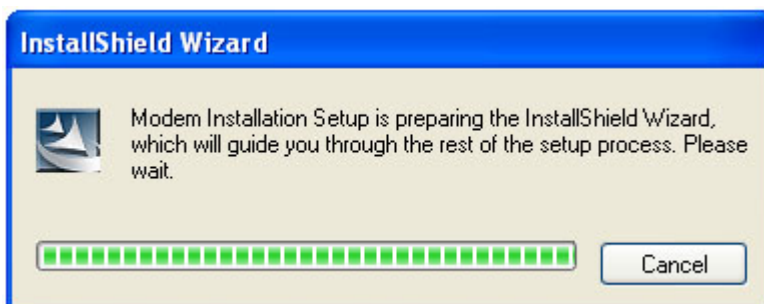
Execute the Uninstall program.



Execute "setup.exe" in installation folder or click "Uninstall"

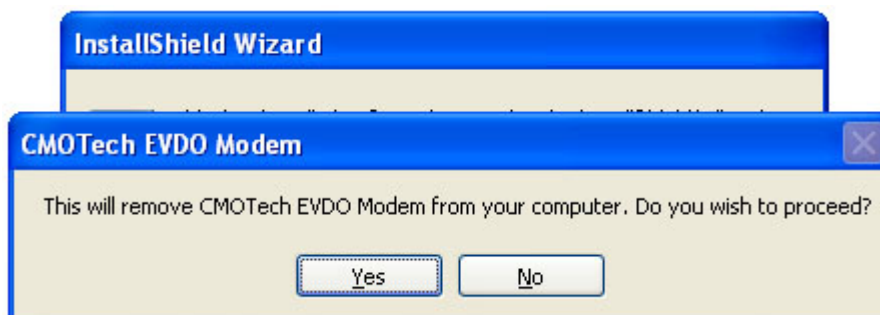


Auto Run



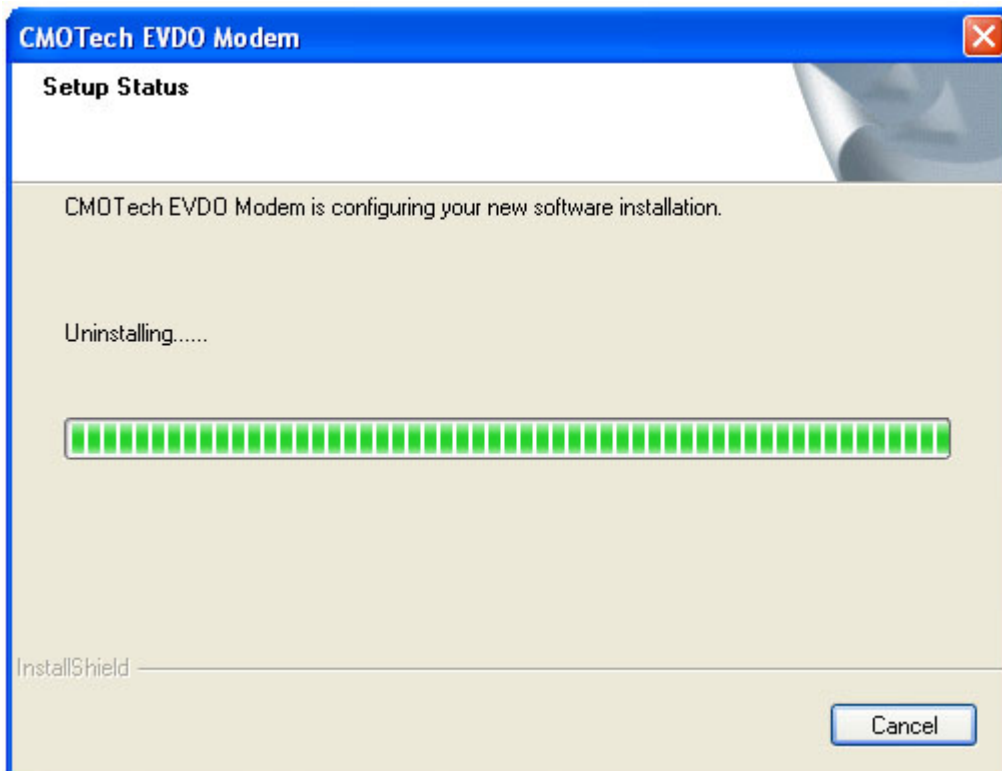
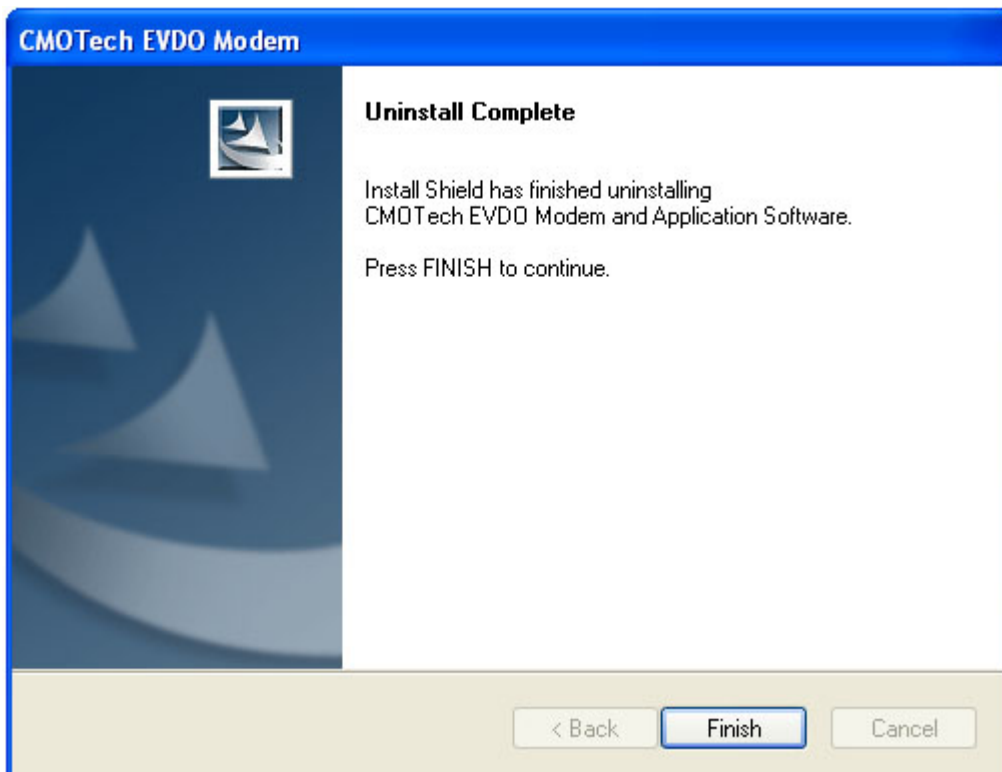
Press button

As clicking Uninstall icon, you can see a dialog below. Click yes button.



Uninstall continue.

Uninstall program remove file in your PC. (Uninstall Program deletes Drivers, Modem and Modem Application Program.)

**Uninstall Complete. Click 'Finish' button.**



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