Quectel Cellular Engine

# GPRS Setup

**GPRS_Setup_V1.00**

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| **Document Title** | GPRS Setup |
| **Version** | 1.00 |
| **Date** | 2009-06-27 |
| **Status** | Release |
| **Document Control ID** | GPRS_Setup_V1.00 |

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# 0. Revision history

| Revision | Date | Author | Description of change |
|---|---|---|---|
| 1.00 | 2009-06-27 | Jean HU | Initial |
| | | | |
| | | | |

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# 1. Introduction

This document describes how to establish a PPP connection with Microsoft Windows NT4.0 using the prototype of GSM/GPRS. Configurations and settings for other operating systems (Windows 95/98) may slightly differ, but the general process is similar.

## 1.1. Reference

**Table 1: Reference**

| SN | Document name | Remark |
|---|---|---|
| [1] | M10_ATC_V1.00 | |
| [2] | RFC 1661 – The Point-to-Point Protocol (PPP) | |
| [3] | RFC 1994 –PPP Challenge Handshake Authentication Protocol (CHAP) | |

## 1.2. Terms and abbreviations

**Table 2: Terms and abbreviations**

| Abbreviation | Description |
|---|---|
| **APN** | Access Point Name |
| **CHAP** | Challenge Handshake Authentication Protocol |
| **CID** | Context Identity |
| **DHCP** | Dynamic Host Configuration Protocol |
| **DNS** | Domain Name Server |
| **DSB** | Developer Support Box |
| **GPRS** | General Packet Radio Service |
| **GSM** | Global System of Mobile Communication |
| **IP** | Internet Protocol |
| **OS** | Operating System |
| **PDP** | Packet Data Protocol |
| **PIN** | Personal Identification Number |
| **PPP** | Point to Point Protocol |
| **QoS** | Quality of Service |
| **RAS** | Remote Access Service |
| **ROM** | Read Only Memory |
| **SIM** | Subscriber Identity Module |
| **TCP** | Traffic Control Protocol |

# 2. What You Need

## 2.1. GPRS setting from your network provider

Before you set up your device to access the GPRS network, contact your network provider to obtain the GPRS service.

## 2.2. Modem installation and configuration

You will need to set the modem configuration. Follow the steps in chapter 3.

***Note:***
***Administrator rights for the operation system may be needed in order to set the modem configuration. Connect your local system administrator for advice.***

## 2.3. Dial-Up network installation and configuration

You will need to set up the Dial-Up network. Follow the steps in chapter 4.

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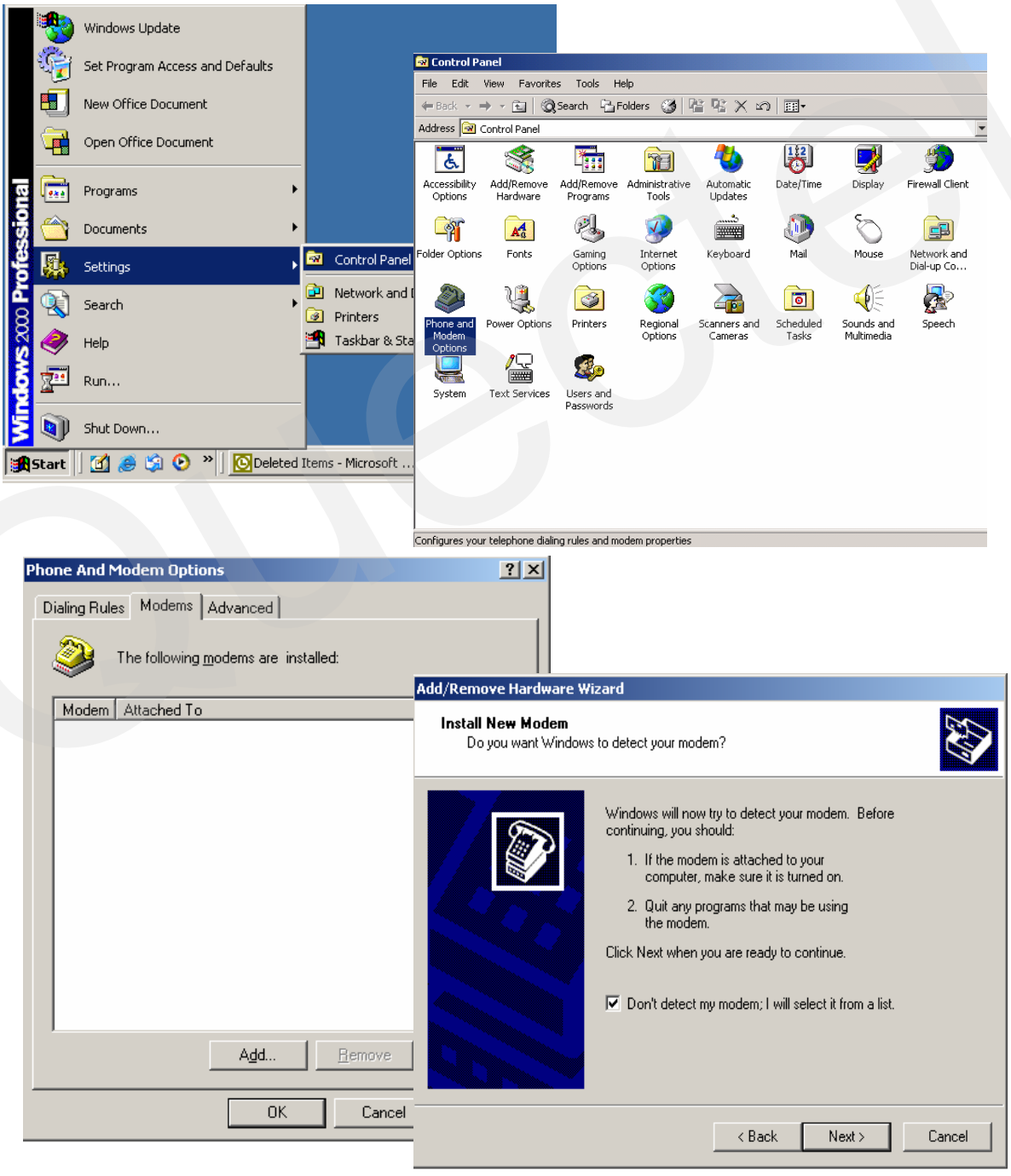
# 3. Set up a Windows Modem Driver

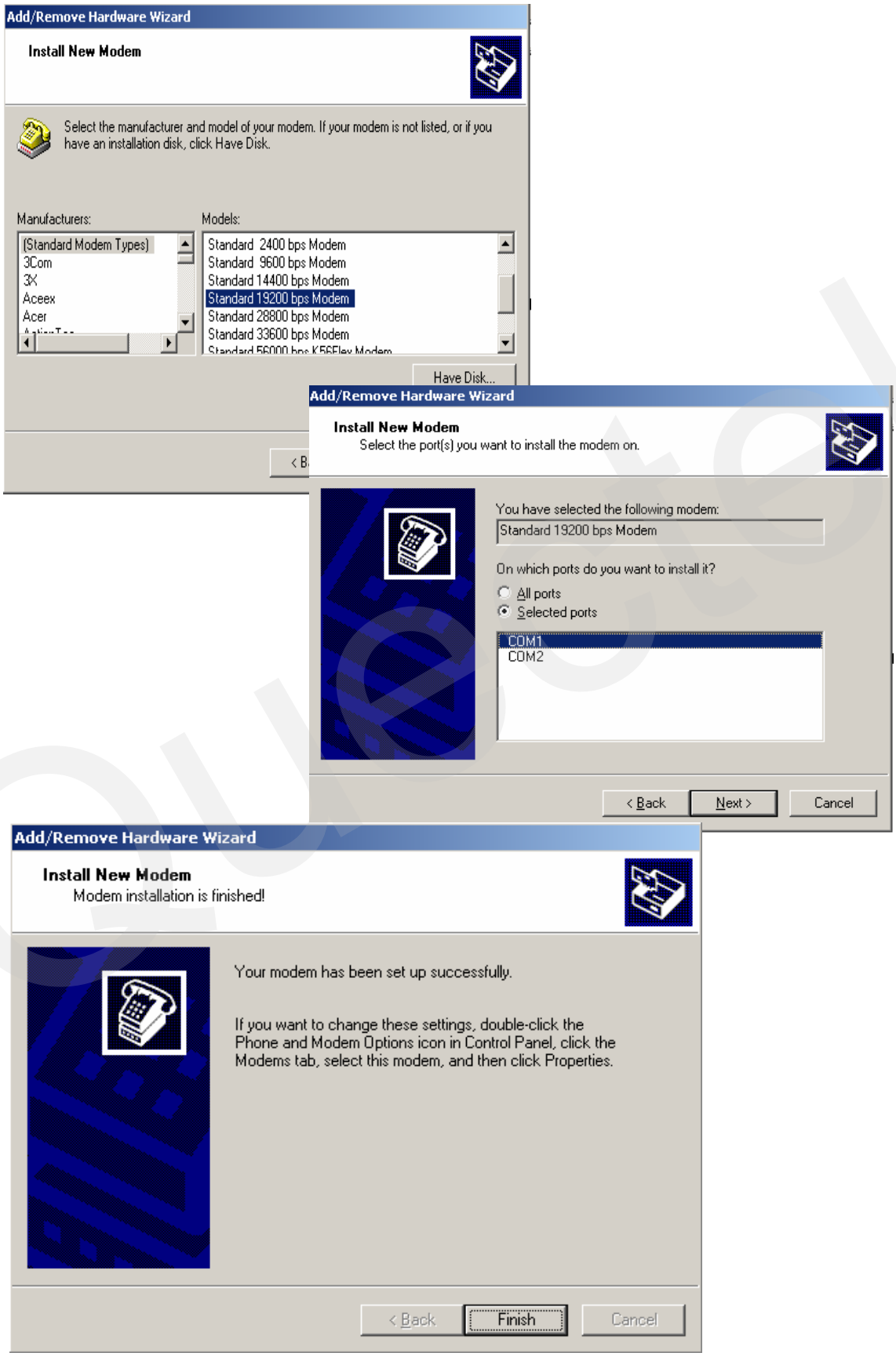
## 3.1. Add a new modem

If there is no standardized 19200bps modem has been installed, you can add a new standardized modem to the modem section of the control panel.

Click Start -> Setting -> Control Panel -> Phone and Modem option -> Modem -> add

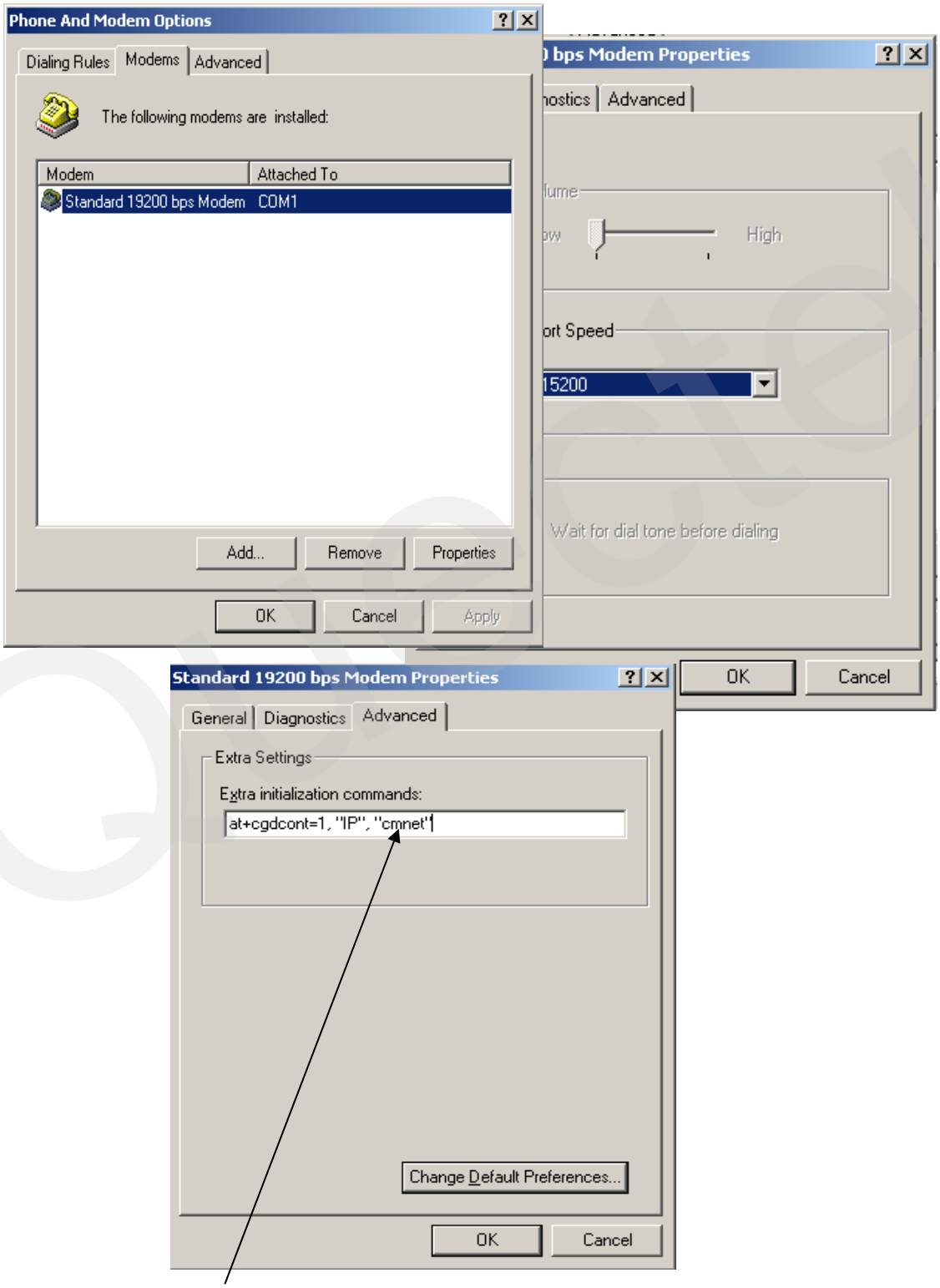


Follow the instructions on the screen, choose "**19200 bps modem**" and "**COM1**", click "**NEXT**", till to finish the configuration.



## 3.2. Configure the modem driver

Choose the installed standardized 19200bps modem, click "**Property**", choose the max port speed (default value: 115200), and click "**Advanced**" to configure "**Extra setting**" as illustrated in the figures below.

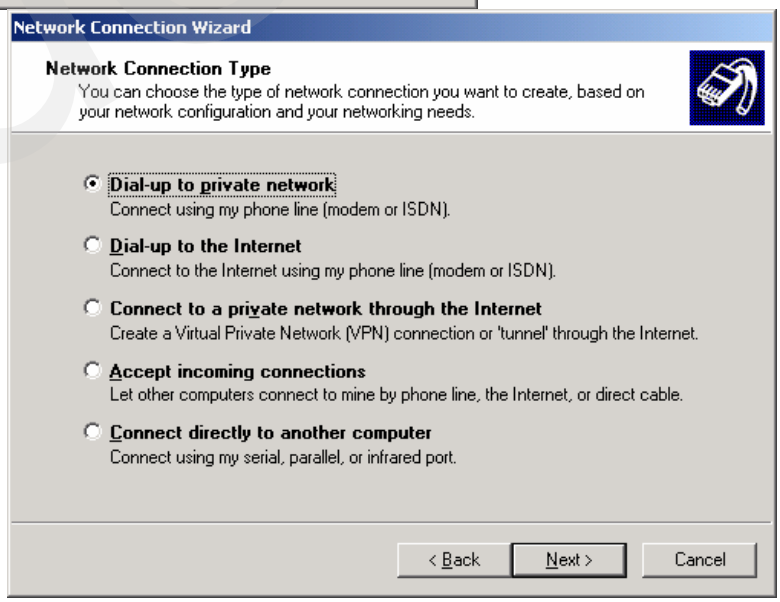



Please change the "**CMNET**" to your access point name (APN).

# 4. Set up the Dial-up Network

## 4.1. Set up a new connection

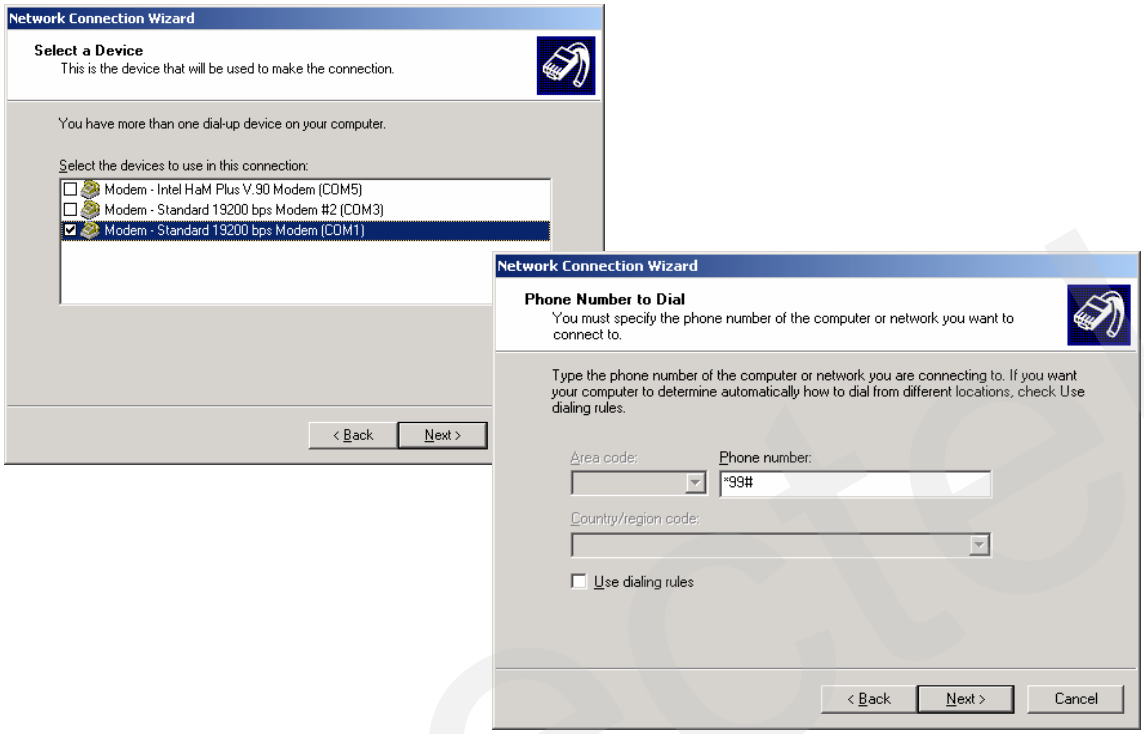
Select "**Network and Dial-Up Connections**" and then "**Make new connection**" in control panel.



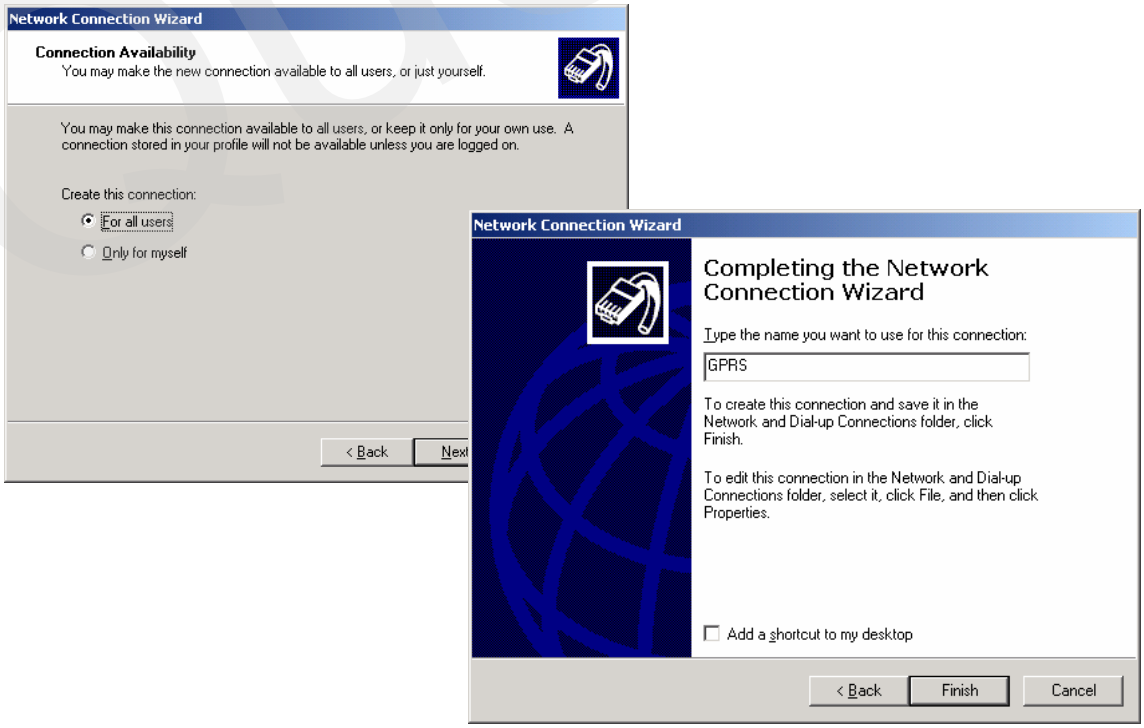

Select "**Dialup to private network**" -> click "**Next**"

## 4.2. Configure the setting

Select “Modem – Standard 19200bps modem (COM1)”, then click “**Next**”.



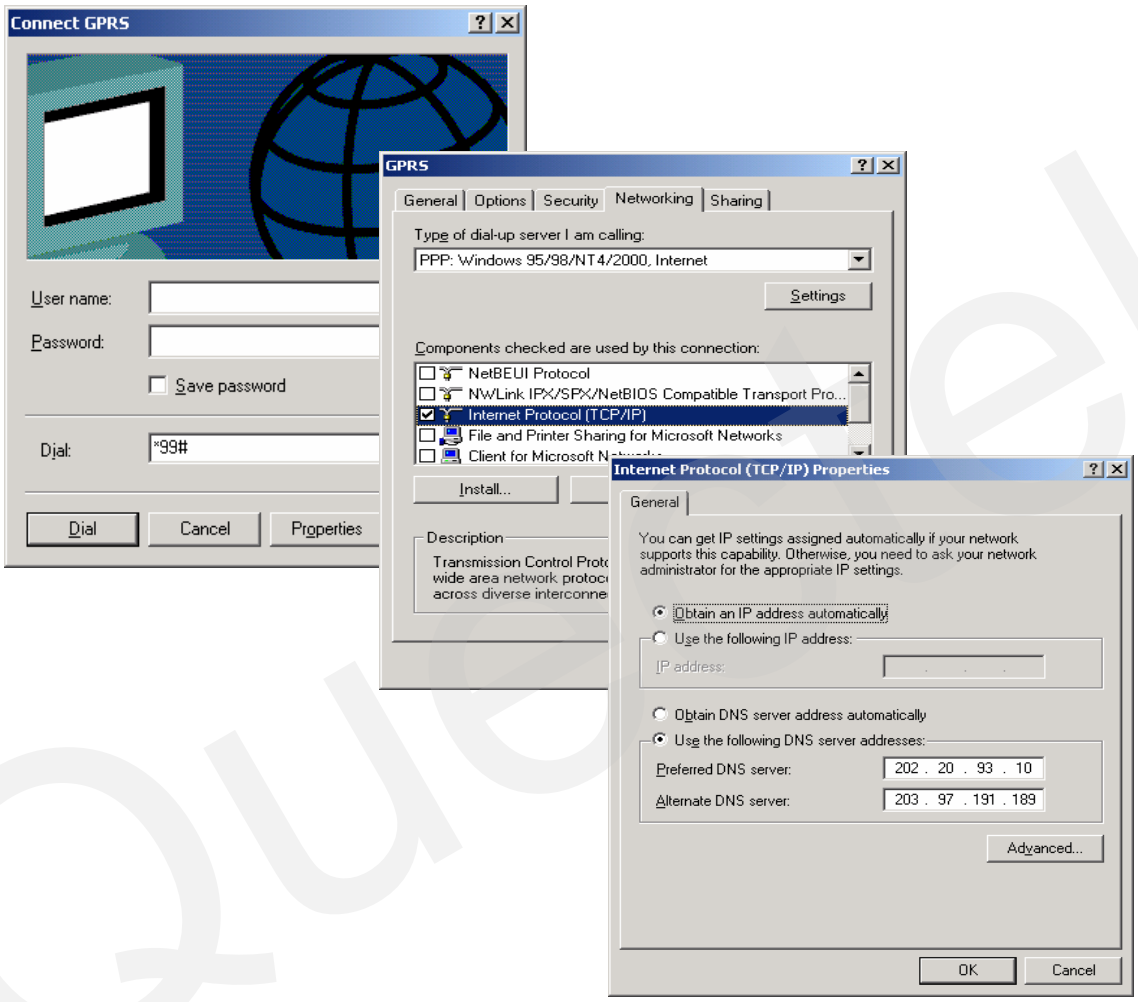

Enter the number for GPRS connection (do not select “**use dialing rules**”), then click “**Next**”.




Enter the name for this connection (for example, “GPRS”), then click “**Finish**”.

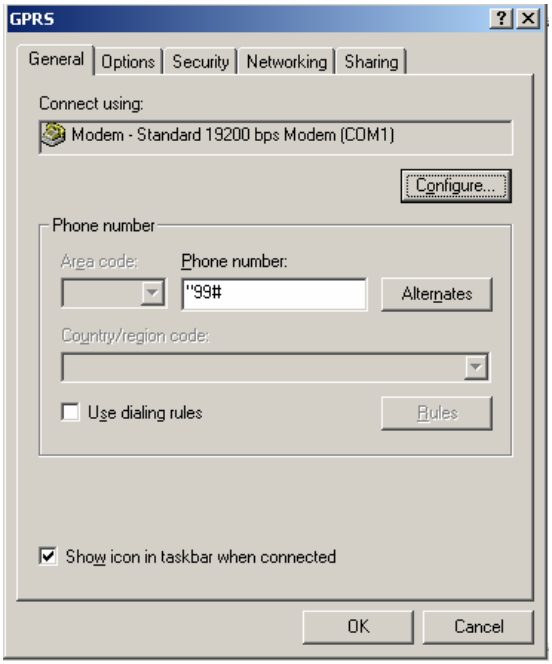
# 5. Configure the Connect GPRS

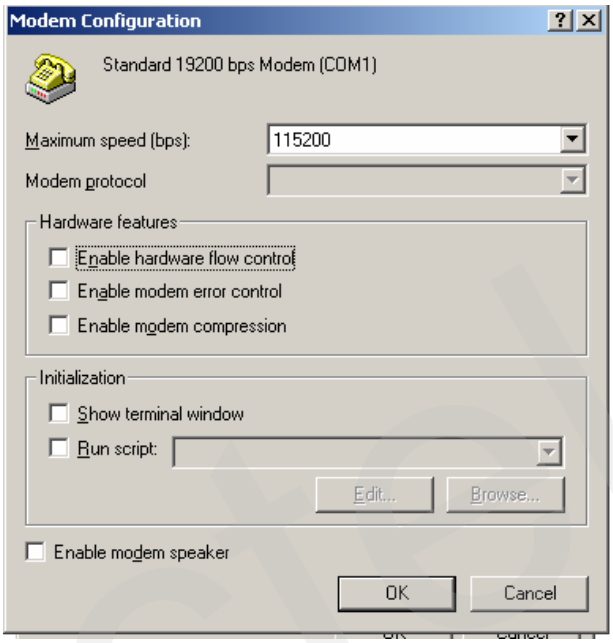
Ensure "**User name**" and "**Password**" are both blank.



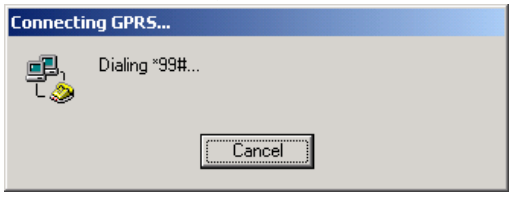

Click "**Properties**", then select "**Networking**" tab. Select "**Internet protocol (TCP/IP)**" and click "**Properties**", then set DNS and click "**OK**" to finish the configuration

Select "**General**" tab, then click "**Configure**". Set the maximum speed to "**115200**". Click "**OK**" to finish the configuration.




Now click "**Dial**".



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