

bsquare development

bMOBILE^(tm) CDPD Demo Driver for Windows CE

March 26, 1997

Demo Expiration Date

1 May 1997

Driver Installation

The driver installation consists of installing the software, resetting the Handheld PC, and setting up the CDPD connection.

Installing the Software

Before software installation, you must establish a connection between your desktop computer and the Handheld PC using HPC Explorer. Run the setup program from the bMOBILE^(tm) floppy disk.

Resetting the Handheld PC

Once the software is installed onto your Handheld PC, you must reset the device. Press and release the reset button using the stylus or a paper clip. This forces the Handheld PC through a warm boot sequence that will load the CDPD driver.

Connection Setup

To set up a connection to the CDPD modem, use the Make New Connection wizard. This can be found under 'Start\Programs\Communication\Remote Networking.' Double tap on 'Make New Connection.' Select '**Direct Connection**', tap 'Next' to proceed. In the 'Select the device that you want to use:' listbox, tap the arrow to choose 'CDPD modem on COM5.' Tap the 'TCP/IP Settings' button. Enter your NEI (IP Address) and both your Primary and Secondary DNS addresses. You must UNCHECK 'Use software compression' and 'Use IP_header compression' or the CDPD modem connection will not work.

Setup Details

1. Go to Start\Programs. Double tap on \Communications\Remote Networking\Make New Connection.
2. Choose an appropriate name, for example 'CDPD' and enter it into the 'Type a name for the connection' editbox.
3. In the 'Select the connection type:' group box, choose '**Direct Connection.**'
4. Tap next.
5. In the 'Select the device that you want to use:' listview, choose 'CDPD Modem on COM5.'
6. Tap the TCP/IP button to modify the TCP/IP settings:
 - a) Uncheck the Server-assigned IP address checkbox.
 - b) Set the IP address to the NEI (IP address) of the CDPD modem.
 - c) Uncheck the 'Use software compression' checkbox.
 - d) Uncheck the 'Use IP header compression' checkbox.
 - e) Uncheck the 'Server-assigned name server addresses' checkbox.
 - f) Set the Primary DNS address to the one provided by the carrier.
 - g) Set the Secondary DNS address if provided by the carrier.
 - h) Set the Primary WINS address if provided by the carrier.
 - i) Set the Secondary WINS address if provided by the carrier.
 - j) Tap OK.
7. Tap FINISH.

Placing the Connection Icon on the Desktop (optional)

It is necessary to establish the connection prior to running programs that will utilize the CDPD modem. This step can be made easier by placing the connection on the desktop. To create a shortcut on the Desktop, hold the ALT key and tap on the newly created (CDPD) connection icon. Tap

on 'Desktop Shortcut' from the menu.

Forming the connection

Make sure the CDPD PC Card modem is turned on, and double tap the CDPD connection. It should open and authenticate the port.

1. Power up the CDPD modem.
2. Install the CDPD modem into the Handheld PC. Note: The PC Card modem must be **locked** into place if you are using a Casio Cassiopeia.
3. If you are using your Handheld PC on battery power, choose 'Yes' when prompted with "Do you want to use this PC card on battery power?"
Note: If you do not choose 'Yes' the communication drivers in the operating system will not be activated.
4. Locate the newly created connection icon either on the desktop or in the 'Remote Networking' folder.
5. Double tap on this icon to establish the connection.
6. When the connection is established there will be a small icon showing the connection in the task bar after the dialog boxes are gone. **Note:** Forming the connection may take up to 1 minute, but is usually significantly less when in a good area for receiving CDPD traffic.

Running programs

Once the port connection has been authenticated, you may double tap on the program you wish to run. When you are finished, make sure to break the connection.

Breaking the connection

1. Double tap on the small connection icon in the task bar in the lower right corner of the screen.
2. Select 'Disconnect' on the popup dialog box.
3. Wait for the dialog box to disappear. **Note:** Breaking the connection may take up to 20 seconds.
4. Remove the CDPD modem from the Handheld PC.
5. Turn off the CDPD modem.

Application Notes

PocketIE

Use Pocket Internet Explorer to visit our Web site at <http://www.bsquare.com/development/bmobile.htm> for more product information.

Inbox

Inbox should work with any SMTP/POP3 mail server as long as the POP server does not do a reverse DNS, then a forward DNS to resolve security. Currently AT&T Wireless Services' Wireless IP network does not support this. Check with your internet service provider regarding reverse/forward DNS.

Disabling the CDPD Driver

You may find it necessary at times to disable the CDPD driver. This is done by using the 'bMOBILE Properties' control panel applet, and then resetting the Handheld PC. The 'bMOBILE Properties' control panel applet can be found under \Settings\Control Panel\bMOBILE Properties.

1. Double tap the 'bMOBILE Properties' icon.
2. Remove the check in the 'Driver Enabled' check box.
3. Tap OK.
4. Press and release the reset button on the Handheld PC.

Removing the CDPD Driver

To remove bMOBILE from the Handheld PC, you must first disable the CDPD driver. To do this, go to 'Start', 'Settings', double tap on the 'bMOBILE Properties' icon and uncheck the 'Driver Enabled' check box, tap OK and then reset the device. After resetting the Handheld PC, go to 'Start', 'Settings', 'Remove Programs'. Tap on bMOBILE to highlight it, and tap on 'Remove'. Choose OK to exit 'Remove Program Properties'.

Q. Why is the CDPD driver still displayed in Control Panel after I remove the program.

A. Control Panel does not automatically refresh it's display after you remove bMOBILE. Close and re-open Control Panel - the CDPD driver will be gone.

Known Problems:

- If you have problems establishing a connection between your Desktop Computer and the Handheld PC, it may be necessary to disable the CDPD driver.

Additional Support and Comments

Please contact bsquare development for additional support or feedback concerning the CDPD driver and installation.

bsquare consulting, inc.
3633 - 136th Place SE
Suite 200
Bellevue, WA 98006
Attn: bsquare development

Fax: (206) 519-5999
support@bsquare.com