

*** USER'S MANUAL ***

FCC ID : S3R05031401700

The Federal Communication Commission Statement

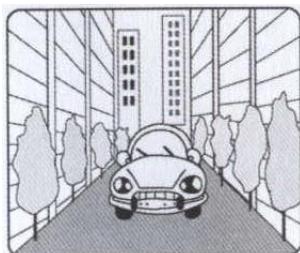
This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, 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 interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of more of the following measures: -

- Reorient or relocate the receiving antenna.**
- Increase the separation between the equipment and 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.**

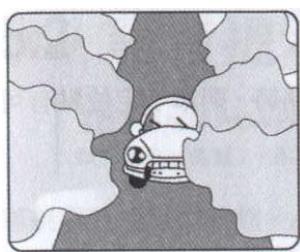
Use only shielded cables to connect I/O devices to this equipment. You are cautioned that change or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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 UNDESIRABLE OPERATION.

1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesired operation.



- Ø Beside some buildings, GPS signal is disturbed.

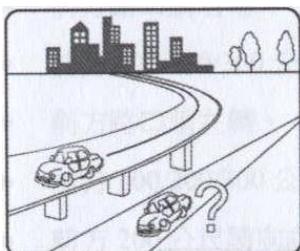


- Ø Inside forests, or too many covers, GPS signal is disturbed.

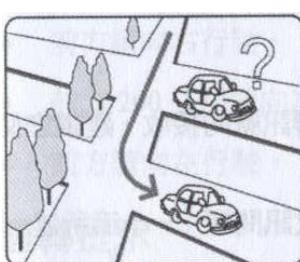
- If you use G-Mouse inside the car, some sun-control film will makes the GPS signal low or lost.
- GPS satellite is owned by America military, sometimes they will tune-down the accuracy by some reason. In such cases, the GPS position may not fixed exactly.

7.3 Problem of Position Fix Error

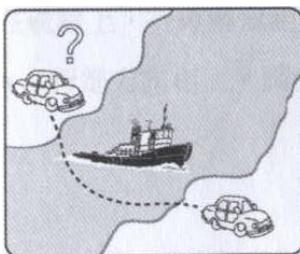
The position fix problem below does not mean the G-Mouse GPS receiver's malfunction:



- Ø You are driving on the freeway, but the GPS navigation software shows you are on the road beside. Or the opposite situation.



- Ø You are driving on a grid like lane, it is possible to show your car on an incorrect lane, if these 2 lane very near.



- Ø If you translate the GPS receiver inside somewhere with no satellite signal, the GPS position may stay at the position before.

7.4 Problem of Position Fix Fail

If you found [Not Fix] after you start up the map software, please consider about following:

- Please wait longer. Inquire position from satellites may cost several minutes depends on your GPS signal quality.
- Please make sure that you put the G-Mouse GPS receiver at a proper place. Some sun-control film for car may cutoff the satellite signal. You may replace it and try again.

Please make sure that you are not inside of somewhere the GPS signal shaded. Please reference the chapter [Satellite Signal Problem] about this.

8. Order Information

- (1) Part No: FGPXBT01
- (2) Color of shell available
 - BK: Black shell (None transparent)
 - BL: Blue shell (transparent)

Bluetooth GPS Receiver

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1. Introduction

1.1. Overview

The BT-R700 Bluetooth GPS receiver is a Global Position System Receiver with Bluetooth wireless technology. This BT GPS receiver allows you to receive GPS data on mobile handhelds wirelessly. By sending GPS position data over Bluetooth, you can position the receiver for the best possible reception all without wires. The advent of Bluetooth GPS receiver will become the next level of GPS receivers. The BT GPS receiver integrates Bluetooth module into GPS device. It shows the high performance, low power consumption, easily portable, rechargeable & removable battery function and wireless data transmission. If you have a Pocket PC or other portable devices enabled with Bluetooth function, for example ASUS-620, iPAQ 2210, HP and Palm , you can take advantage of your device's Bluetooth capability to wirelessly add GPS positioning technology. When you choose suitable navigation software, you can apply to personal, vehicle tracking, and marine navigation. If you use this Bluetooth GPS receiver, you will ignore the messy cords and antenna and add the portability of your Pocket PC. In addition, This Bluetooth GPS receiver can change the exhausted battery to full battery like battery of mobile phone.

1.2. Main Features

- ◆ 16 Channels "All-In-View" Tracking
- ◆ Cold/Warm/Hot Start Time: 45/38/10 Seconds : Reacquisition Time: 0.1 seconds
- ◆ Support Standard NMEA-0183 at 9600 bps baud rate
- ◆ Compatible with Bluetooth devices with Serial Port Profile (SPP)
- ◆ Small, sleek, and lightweight design easily fits in your hand
- ◆ Two LEDs at the top of the device show Bluetooth and GPS. & On/off push button
- ◆ Fleet management/Asset tracking
- ◆ Personal/Portable Navigation (PDA, Pocket PC etc.)
- ◆ Location Based Services enabled devices
- ◆ Ultra low power-up to 16 hours after fully charged (850mA Li-ion Battery)
- ◆ High sensitivity-147dBm Integrated GPS receiver, Active antenna, and Bluetooth transceiver

2.TECHNICAL SPECIFICATIONS

General

GPS technology	NEMERIX GPS module
Frequency	L1, 1575.42 MHz
C/A code	1.023 MHz chip rate
Channels	16 channels all in view tracking
Antenna (internal)	Built-in low noise
External Antenna	Port active MMCX antenna

Sensitivity

to -147 dBm tracking, superior urban canyon performance

Accuracy

Position	3 meters CEP (50%), without SA (horizontal) 7 meters (90%)
Velocity	0.1 meters/second, without SA
Time	±100 ns synchronized to GPS time

Datum

WGS-84 (or by demanded)

Acquisition Rate

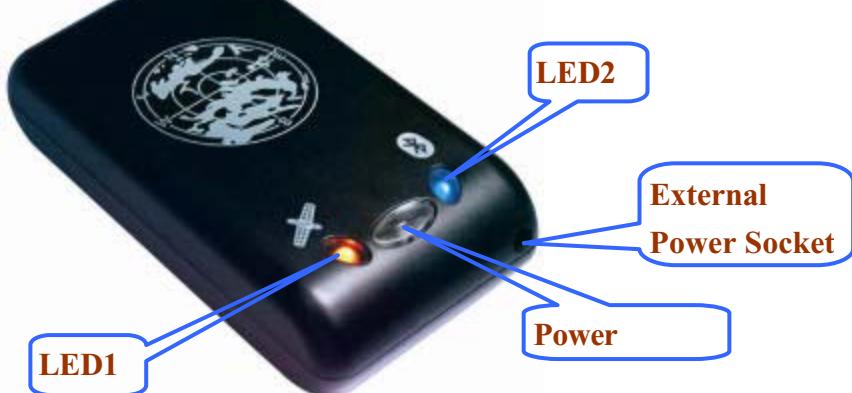
Cold start	45 sec, average
Warm start	38 sec, average
Hot start	10 sec, average
Reacquisition	100ms, average

Dynamic Conditions

Altitude	<18,000 meters
Velocity	<515 meters/second
Acceleration	<4g
Motional Jerk	20 meters/second

3. Operation and Test

3.1. Hardware Description



The Bluetooth GPS has two LED light which each has three colors.

One is GPS (LED2) & Charge status (LED 1) . The status table of LED shows as follows:

LED	Color	Status
LED 1	RED	Power On
	GREEN	Battery is charging until full
	GREEN (Flashing)	Low Power
LED 2	BLUE (Flash quickly)	Detecting satellites , GPS position not fix.
	BLUE (Flash slowly)	GPS Position fix , Navigation

3.2. What do you get in the box?

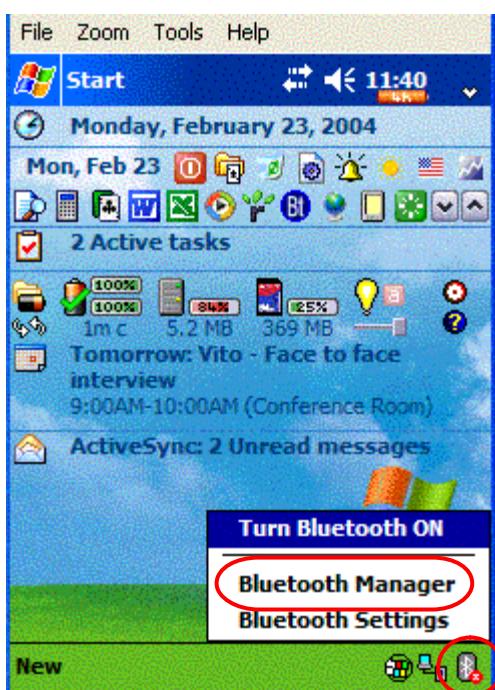
- ✓ BT GPS receiver
- ✓ A Adapter , 5.3V/500mA output
- ✓ A user's manual (CD disc)
- ✓ A Li-Polymer rechargeable battery 850mAh

3.3.1 Software Install - Pocket PC CE

iPAQ Bluetooth fuction setup with Pocket PC software

<Note 1> On the client, make sure the Bluetooth device is available.

<1> Tap Bluetooth pop-up menu,
Turn Bluetooth ON and select Bluetooth manager.

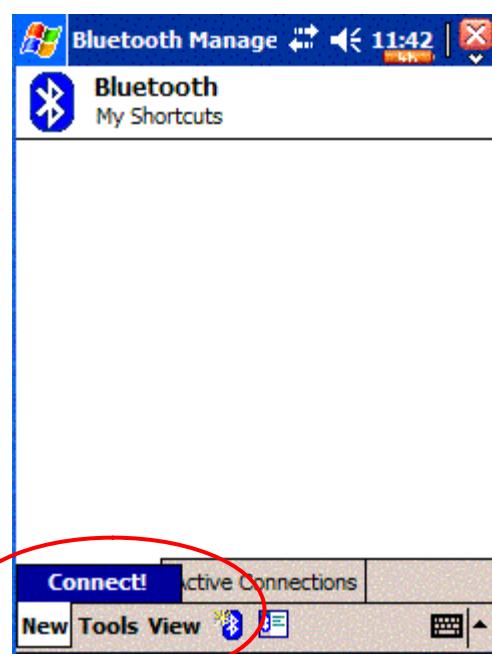


<3> Select "Explore a Bluetooth device" ,Then, turn Bluetooth GPS on before going next step .



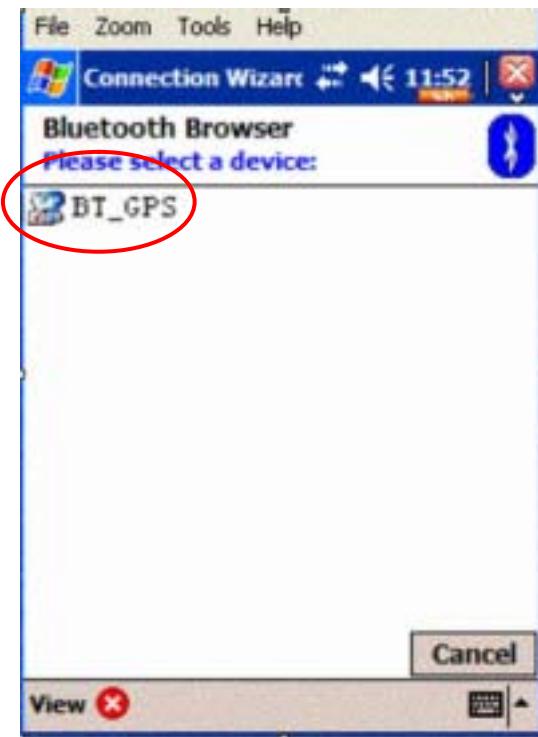
<5> choose BT GPS , click it .

<2> Established new connection , click .

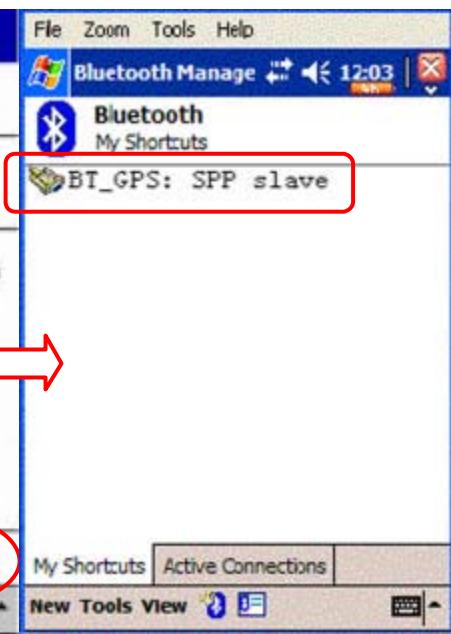


<4> Tap device , then click " next " .

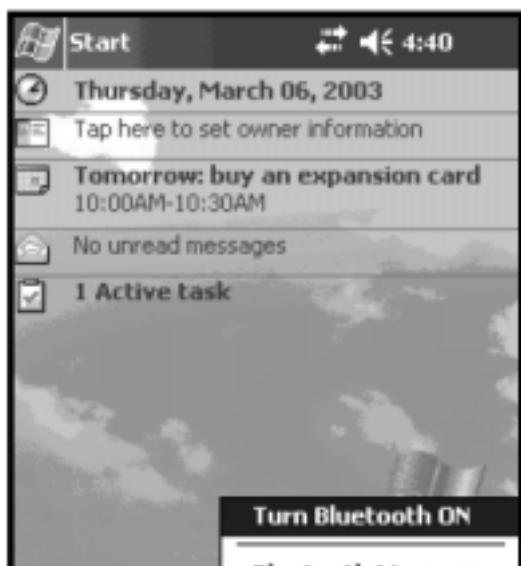




<7> Select "SPP slave" , click "Next" →"Finish " And BT-GPS connection Established successfully.

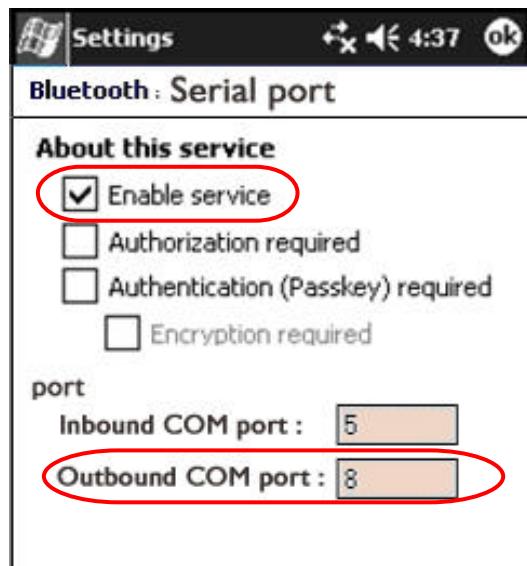


<9> Tap " Bluetooth icon " again , and select " Bluetooth setting ".



iol 5)

<9> Tap " Serial port " , Enable service first , then set up outbound COM port to be "8".



<1.> Find Navigator software in programs , and tap PaPaGo! 5 Navigator



<2.> Tap " tools" and select "setup".



<Note2> The Navigator of map is Chinese version ,and shows as follow. The English version should be similar with Chinese.

<3.> Tap " GPS" table , as following setup.

<4.> Return to PaPaGo main screen .

tap " tools" and select " GPS" → " GPS position "



<5.> GPS position fixed ans start navigating.



Appendix A Test Reference for Only

PC Bluetooth Setup with Widcomm BTW

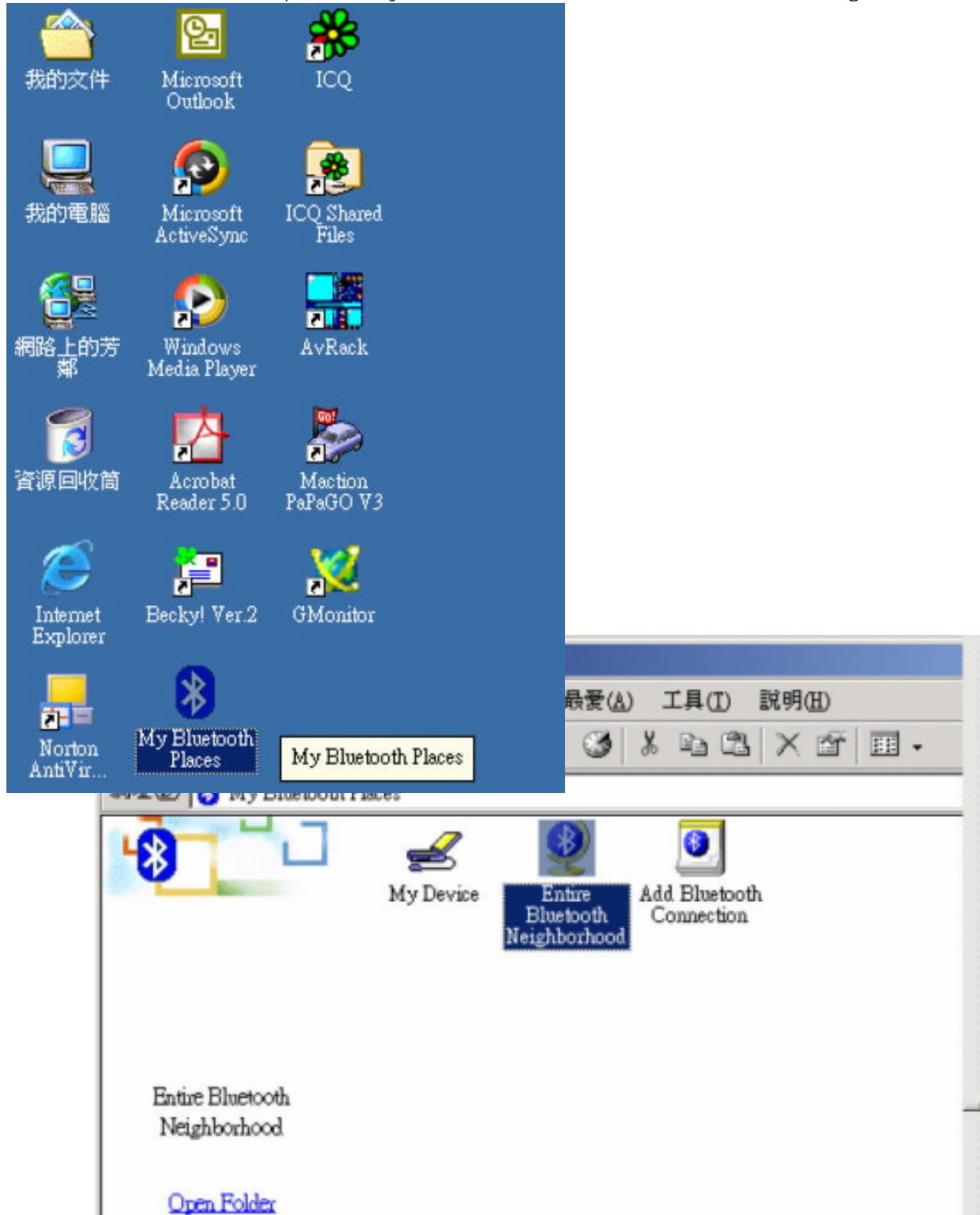
<Note> This software does belong to copyright reserved of Widcomm company and you have to get the authorized software to use it. The follow method is only for reference.

The Bluetooth Serial Port service allows two Bluetooth devices to establish a wireless connection through virtual communications ports and then use that connection as if it were a hardwired serial cable between the devices.

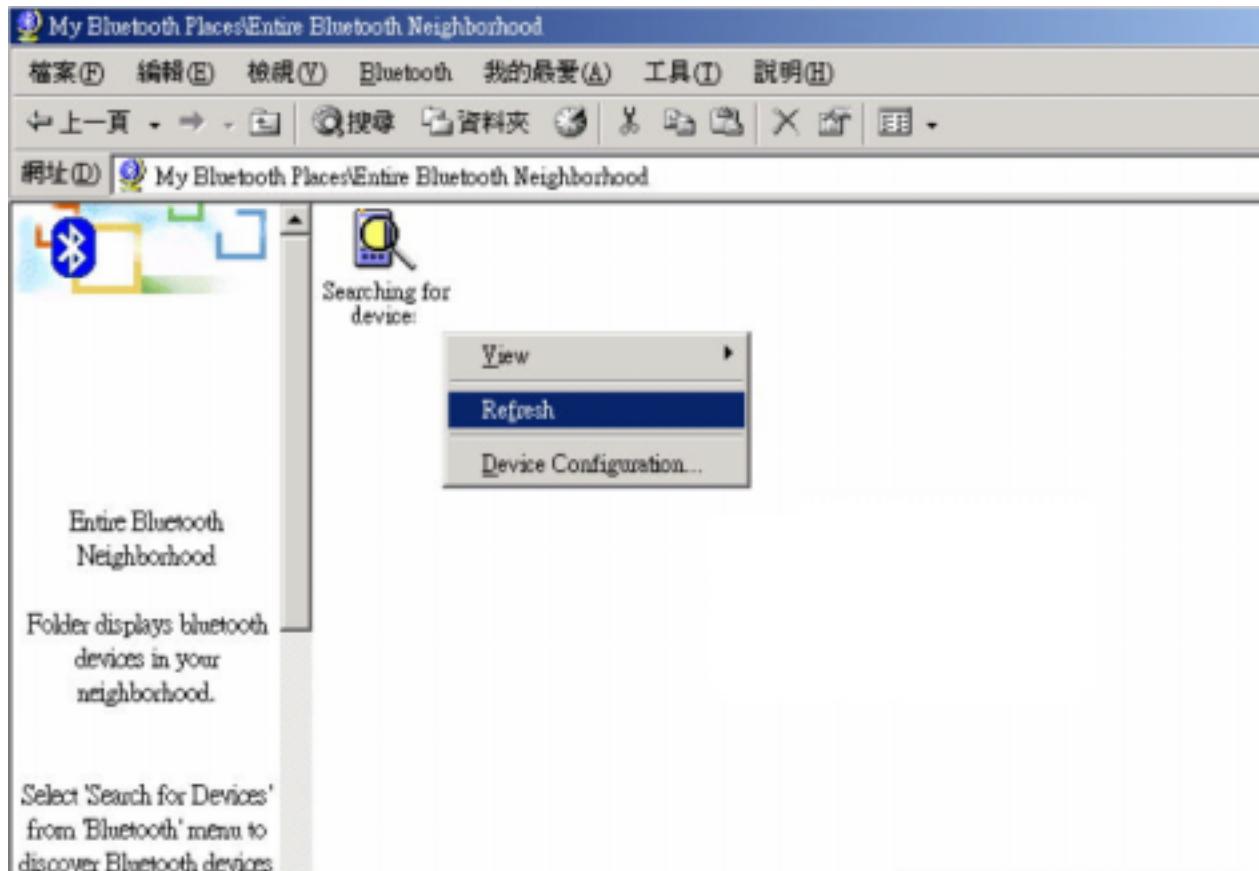
To establish a Bluetooth serial port connection:

Connections are initiated from the client:

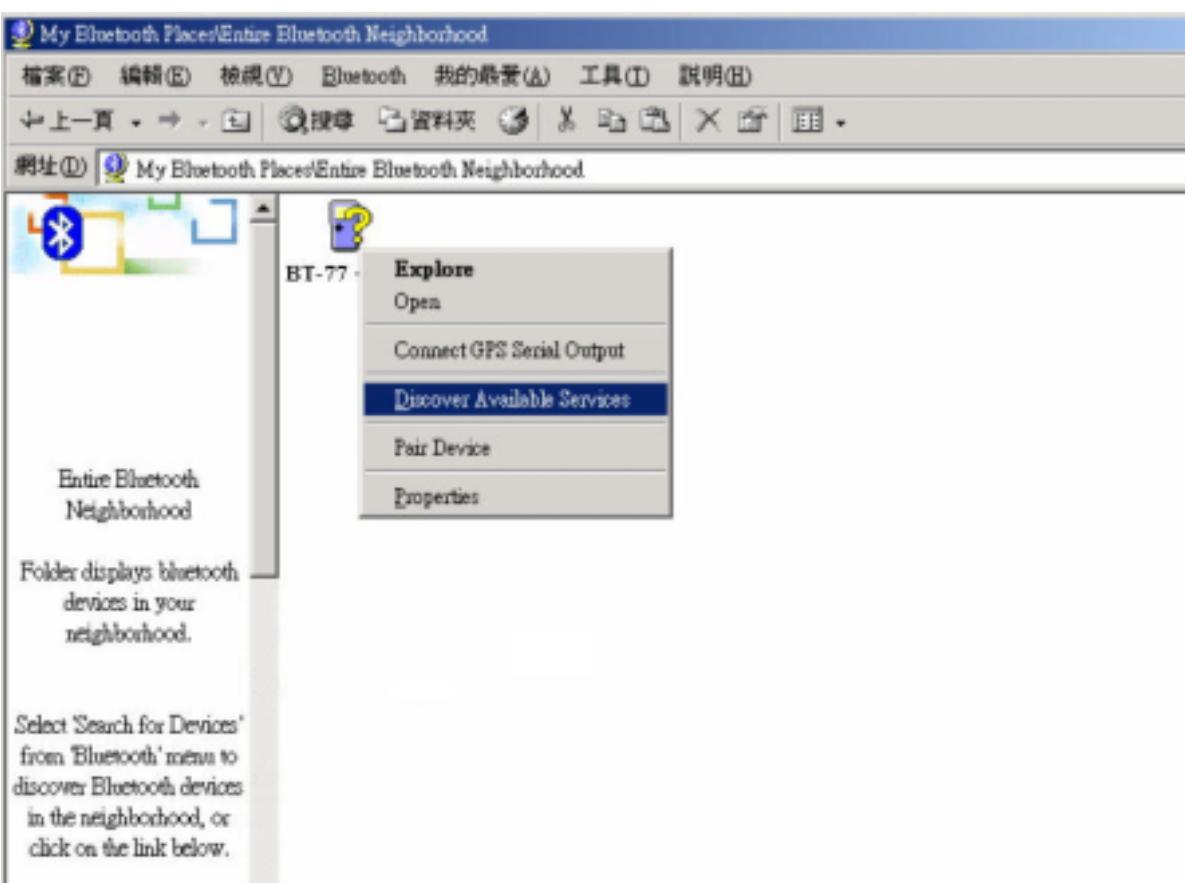
<1> On the client, in the Folders pane of My Bluetooth Places, select Entire Bluetooth Neighborhood.



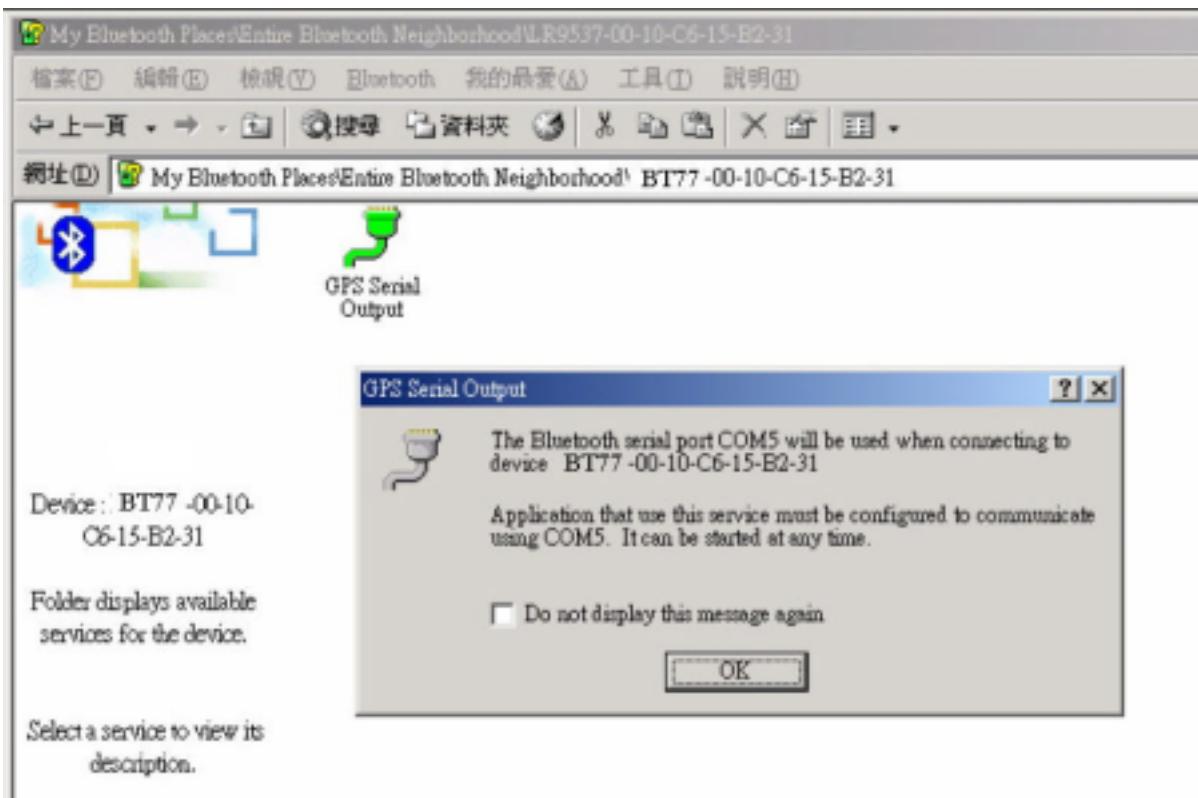
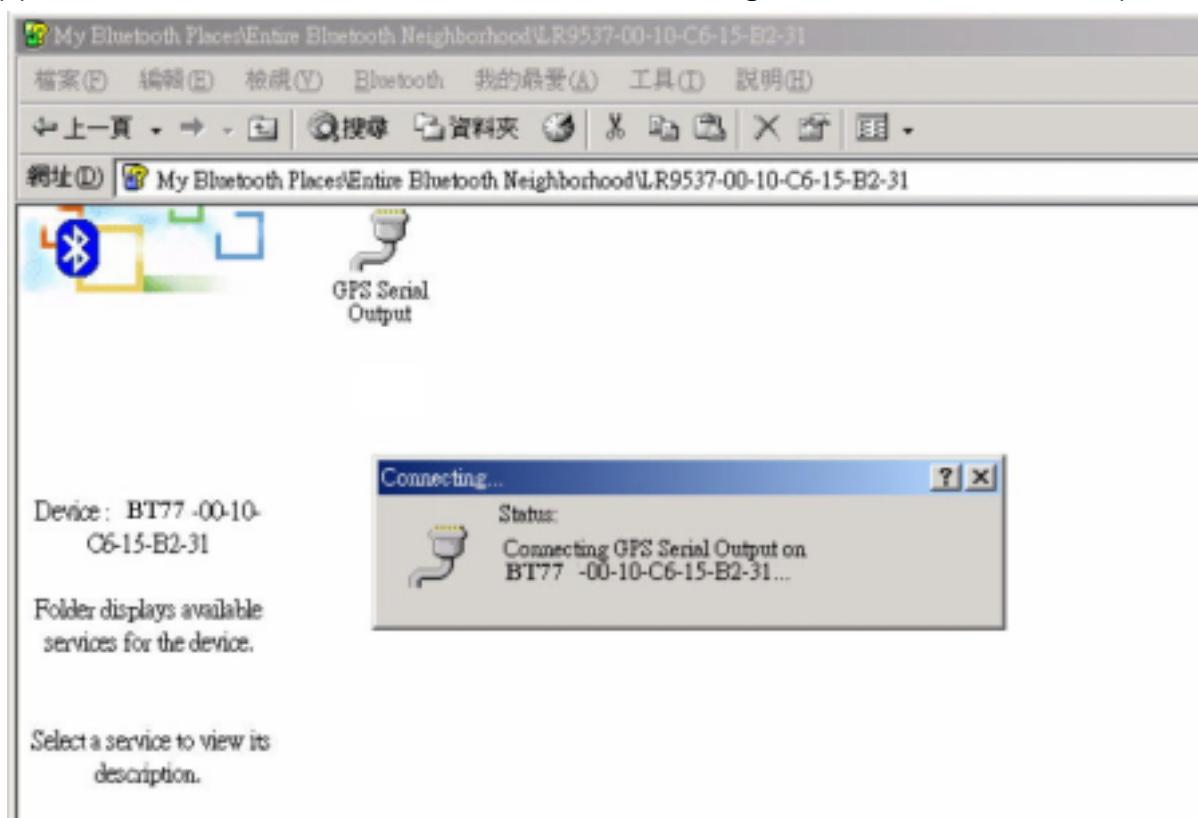
<2> In the right pane of Entire Bluetooth Neighborhood, right-click anywhere except on a device name and select Refresh from the pop-up menu.



<3> In the Folders pane of My Bluetooth Places, right-click the server you want to establish a connection with and select Discover Available Services from the popup menu to update the available services list. The available services will be displayed in the right pane of My Bluetooth Places.



<4> In the right pane of My Bluetooth Places, double-click Bluetooth Serial Port. A dialog box appears that contains the communications port number assigned to this connection by the client. The application that will use this connection must be configured to send data to this port.



To close a Bluetooth serial port connection , Connections are normally closed from the client:

.. On the client, in the Folders pane of My Bluetooth Places, select (highlight) the device that is providing the Bluetooth Serial Port service.

.. In the right pane of My Bluetooth Places, right-click Bluetooth Serial Port and then select Disconnect Bluetooth Serial Port from the pop-up menu.

