



Bluetooth 5.1 Nano USB Adapter




Manual DN-30211 Rev.2

With the DIGITUS® Bluetooth USB Adapter, you can use the fast Bluetooth 5.1 standard with high transmission rates of up to 3 Mbps. This allows you to transmit files, images or music quickly and in high quality. The adapter can be used for mobile devices, for connections between computers, for connecting Bluetooth accessories of all kinds and is supported by the most common gaming consoles. These include controllers, headphones, speakers, keyboards, mice, printers, tablets or smartphones. It is also possible to use dual mode, LAN function, printer control and the serial port function (SPP). The range of the Bluetooth dongle is between 10 and 20 meters depending on the on-site conditions. The BLE function ensures that the power consumption is always adapted to the capacity that is currently required.

Product Specification

1. Basic specifications and parameters

	Product name:	Bluetooth 5.1 Nano USB Adapter
	Model:	DN-30211
	Dimension:	23 mm (L) x 14 mm (W) x 5 mm (H)
	Chip:	BR8651A01
	Weight (NW):	1.08g
	BT Version:	Bluetooth V5.1
	Transmission distance:	10m - 20m
	Rated Voltage:	DC 5V
	Interface type:	USB
	Frequency range:	2.4GHz (2400-2484MHz)
	Transmission rate:	Bluetooth: EIRP: 2.84dBm Maximum Bluetooth: BLE: EIRP: 2.53dBm Maximum
	Software version:	V2.2
	Hardware version:	V3.1
	Operating system:	XP/ Win 7 / Win 8 / Win 10/ 11 / Linux
	Temperature:	0°C ~ 70°C
	Humidity:	1. 40% ~ 60%
Features:	2. Small size, powerful function: wireless listening to music, file sharing (not supporting IOS mobile phone) 3. Powerful function (dual mode, low power consumption, high audio quality, supporting more than 3 Bluetooth devices, supporting Bluetooth service sharing) 4. Comply with Bluetooth 5.1, distance 10-20m	

2. Support services

- Bluetooth LAN (PAN)
- Bluetooth high quality audio (A2DP, HFP)
- Bluetooth image transfer function (BIP)
- Serial port function (SPP)
- Bluetooth printing service (HCRP)
- Bluetooth file transfer service (FTP)
- Bluetooth information exchange service (OPP)
- Bluetooth dial up service (DUN)
- (chip supported protocols: GAP, HFP, HSP, PBAP, A2DP, AVRCP, FTP, OPP, MAP, HID, DUN, PAN, GATT, IAP2, ANCS, SPP, BT5.1 And downward compatible)

3. Application scope

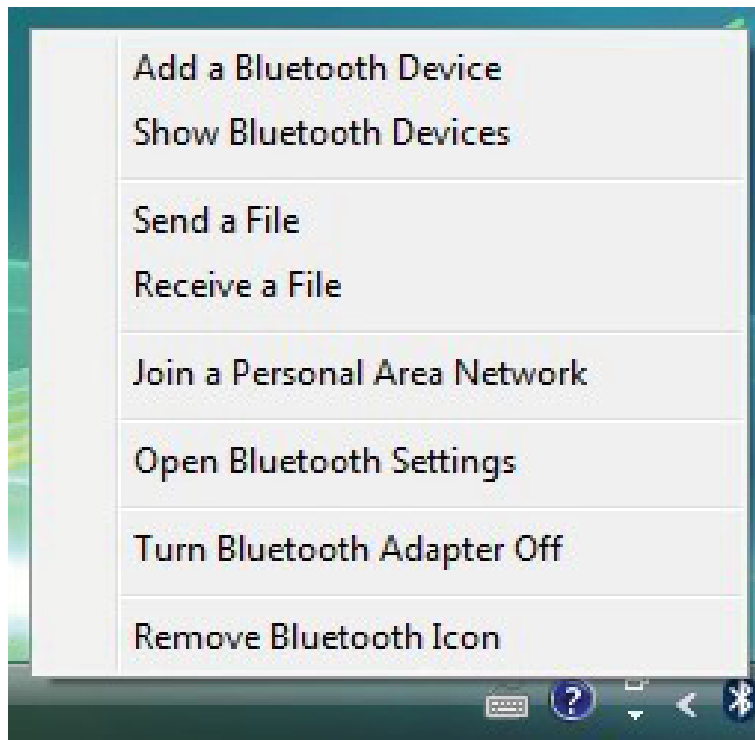
- Wireless communication between mobile phones and hands-free devices was also the first popular application
- Wireless network between computers within a specific distance
- Wireless connection between computer and peripheral devices, such as Bluetooth keyboard, mouse, headset, printer, etc
- File transfer between Bluetooth devices
- Wireless traditional wired equipment, such as: medical equipment, GPS, barcode scanner, traffic control equipment
- Wireless bridge between several Ethernet Networks
- 7 generations of home game console handle, PS3, PSP go, Nintendo Wii ipega9017 ipega9017s ipega9025 Bluetooth game handle
- With Bluetooth support, PC or PDA can realize dial-up Internet access through the modem of mobile phone
- The real-time positioning system (RTLS) uses the "node" or "tag" embedded in the tracked object, and the "reader" receives and processes the wireless signal from the tag to determine the location of the object

4. Operation Instruction

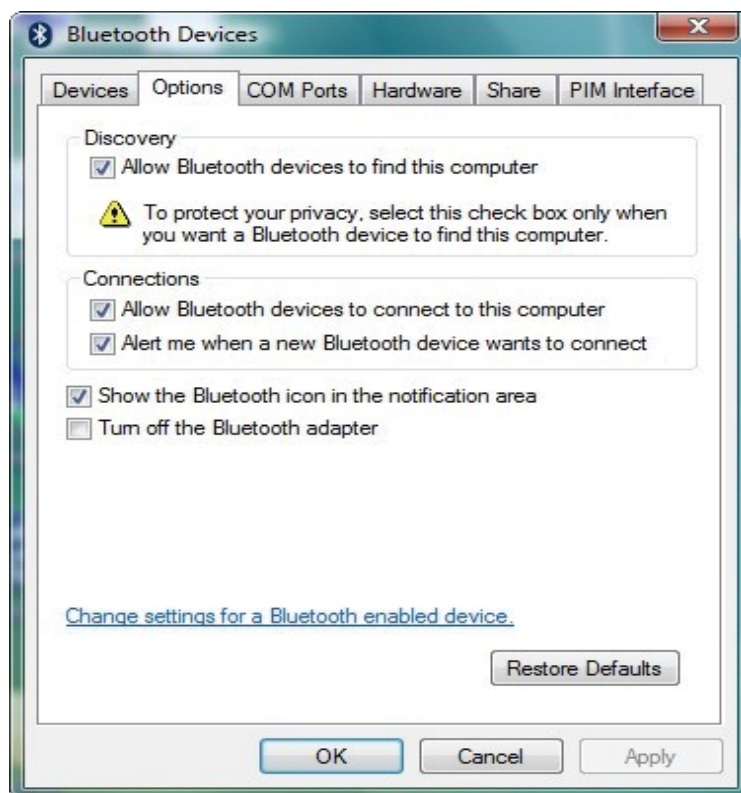
1. Plug and play version, no needs to install the driver

Note:

- (1) **Most laptops have their own Bluetooth function, as shown in the figure. Before plug the BT adaptor into any devices with own Bluetooth function, user needs to disable your own Bluetooth in the device manager, and then re-insert a new Bluetooth adapter.**
 - (2) **IOS system mobile phone does not support file transfer**
2. Once the USB adaptor is plugged you will see a Bluetooth icon on the task bar at the bottom right of the screen. If you click on it (both right and left click work the same way), you will get a list of options.



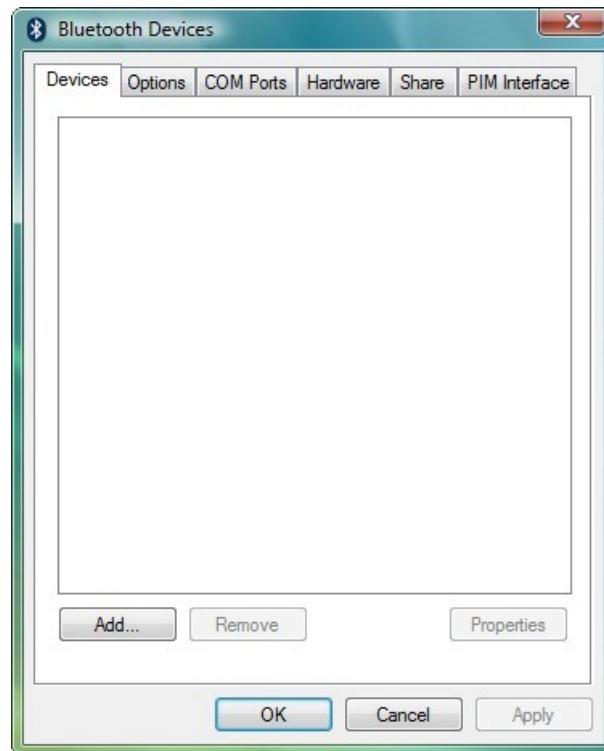
If you do not have a Bluetooth icon, open up **Control Panel** -> **Hardware & Sound** -> **Setup a Bluetooth enabled device**. Go to the **Options** Tab and check the final box on the page – **Show the Bluetooth icon in the notification area**



Pairing your Bluetooth devices

Pairing is a feature of Bluetooth that allows devices to make secure connections. Although you do not always need to pair devices to exchange data, if you are likely to send information between them on a regular basis it is a good idea to do so.

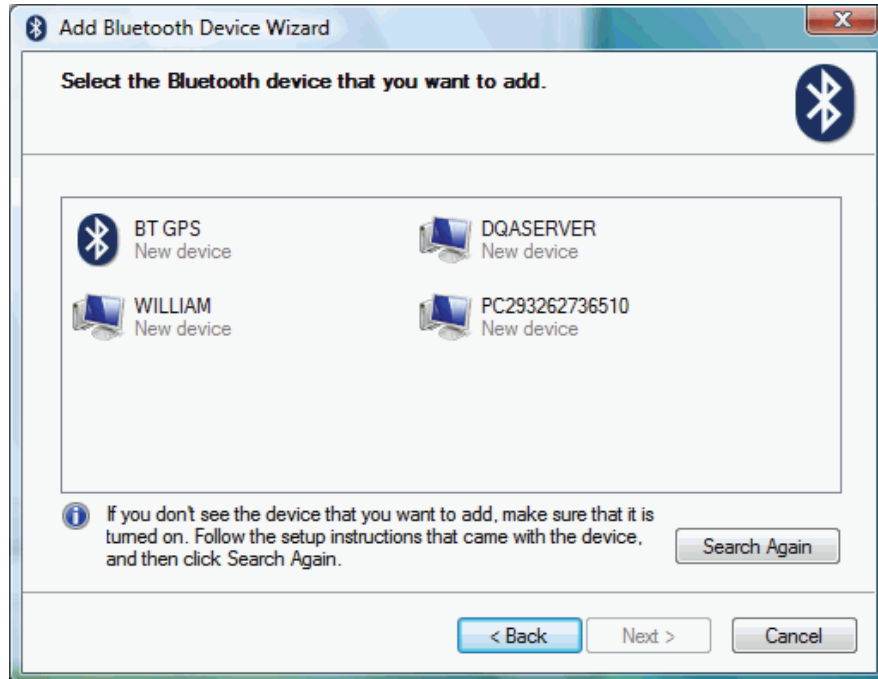
To pair a device using the Bluetooth stack you need to click on the Bluetooth Icon in the task bar and then select **Add a Bluetooth Device**.



Click **Add**. Read the instructions, and once you've done these, check the box **My device is set up and ready to be found** and press **Next**.

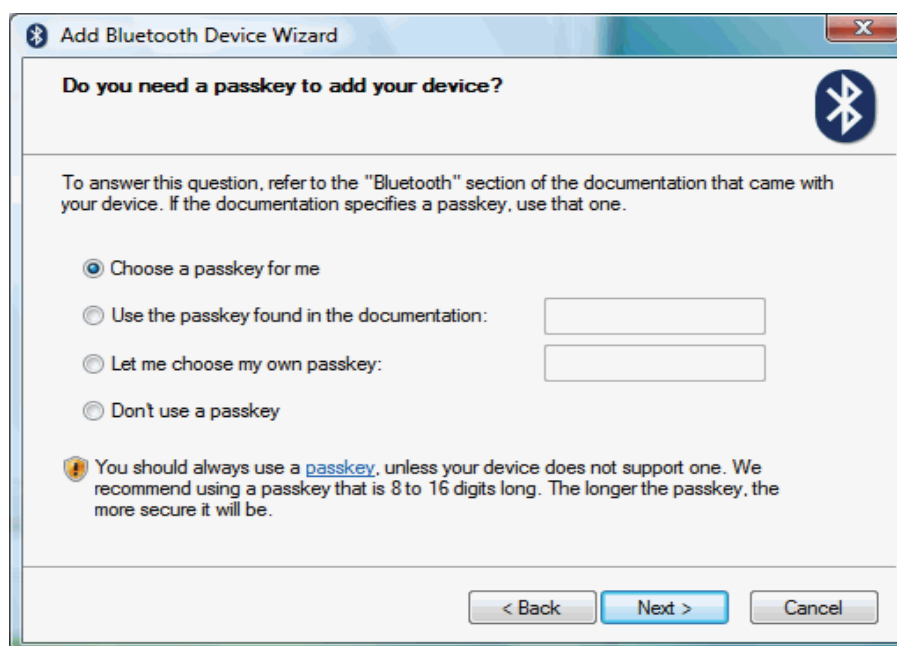


Your PC will then start looking for Bluetooth devices that are discoverable and within range. This may take up to a minute. You will then be given a list of the devices that have been found. If your phone or PDA does not appear on the list then it is probably because it has been set up as hidden or non-discoverable. Dig out the manual (that thing you didn't get around to reading) and find out how to make it visible. Then try again by pressing **Search Again**. Once your device has appeared on the list, highlight it and press **Next**.

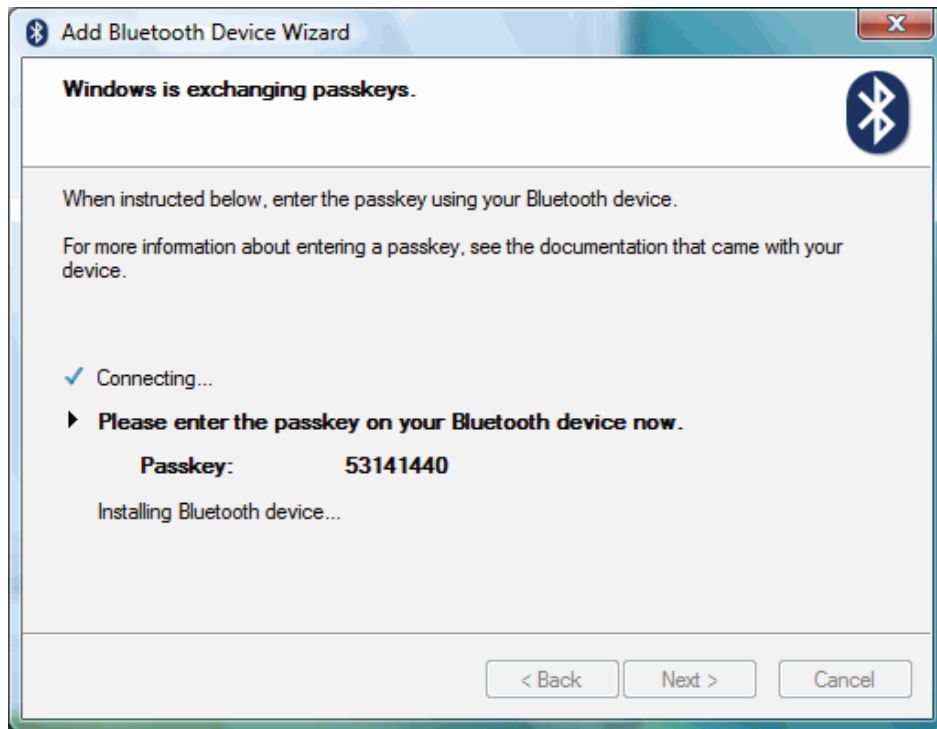


To ensure a secure connection between the devices, you will need to enter a passkey on both the other Bluetooth device and your PC. This is used to generate a secure code that will be used to authenticate the device and your PC every time they connect to each other. For phones and PDAs you can make this passkey up yourself. You don't need to remember it - it is only ever needed the first time you pair the devices.

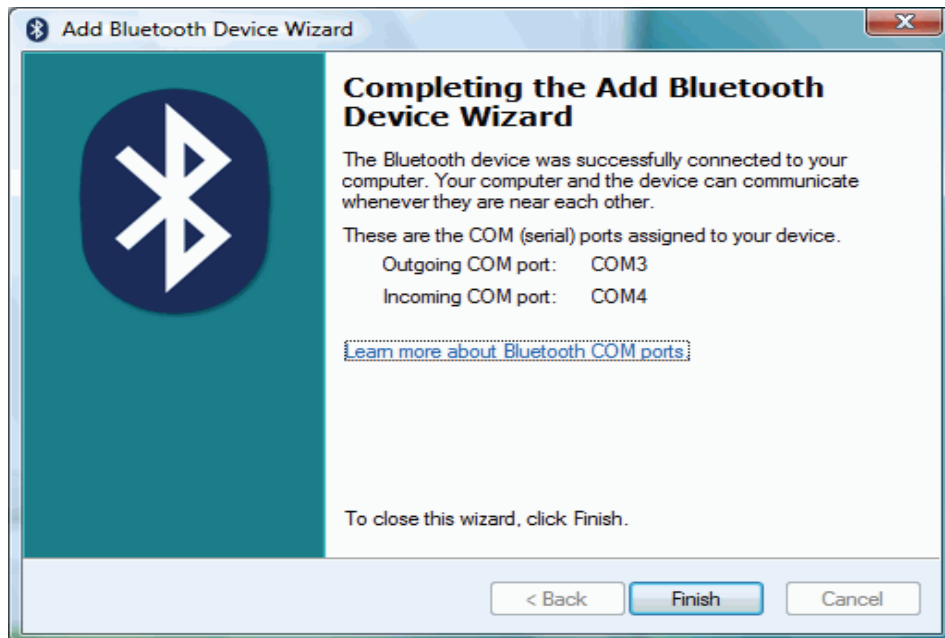
To make things easier (and more secure) Windows can generate a random number for you to use as the passcode. Choose that option (**Choose a passkey for me**) and press **Next**.



Windows will display the number for you to enter in your Bluetooth device:



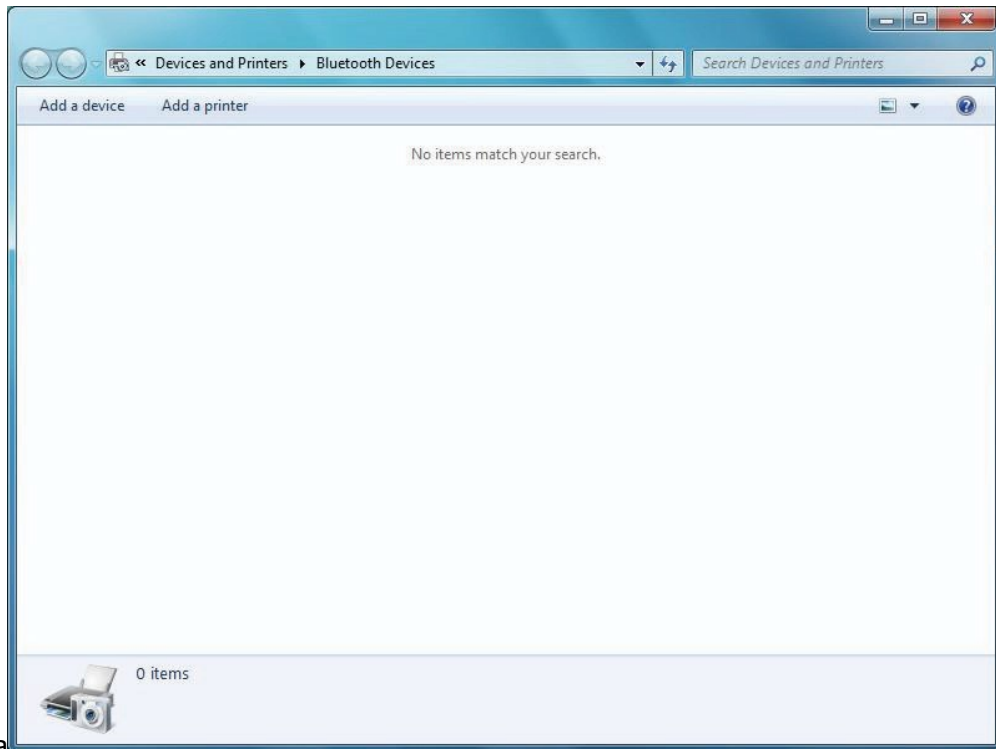
Enter this into your phone or PDA and then press **OK**. If the pairing is successful you will see the final screen on your PC, confirming that the devices have been paired.



At this stage Windows assigns two COM ports to your Bluetooth device – one for incoming and one for outgoing connections. You will need to use these if you run communications programs that connect your PC to your Bluetooth devices. Typical applications include PC Suite for Nokia and Sony Ericsson handsets and Easy Studio for Samsung handsets.

[Windows 7]

To pair a device using the Bluetooth stack you need to click on the Bluetooth icon in the task bar and then select **Add a Device**.



Select the device you want to connect and click **Next** button



Connecting the device you selected.



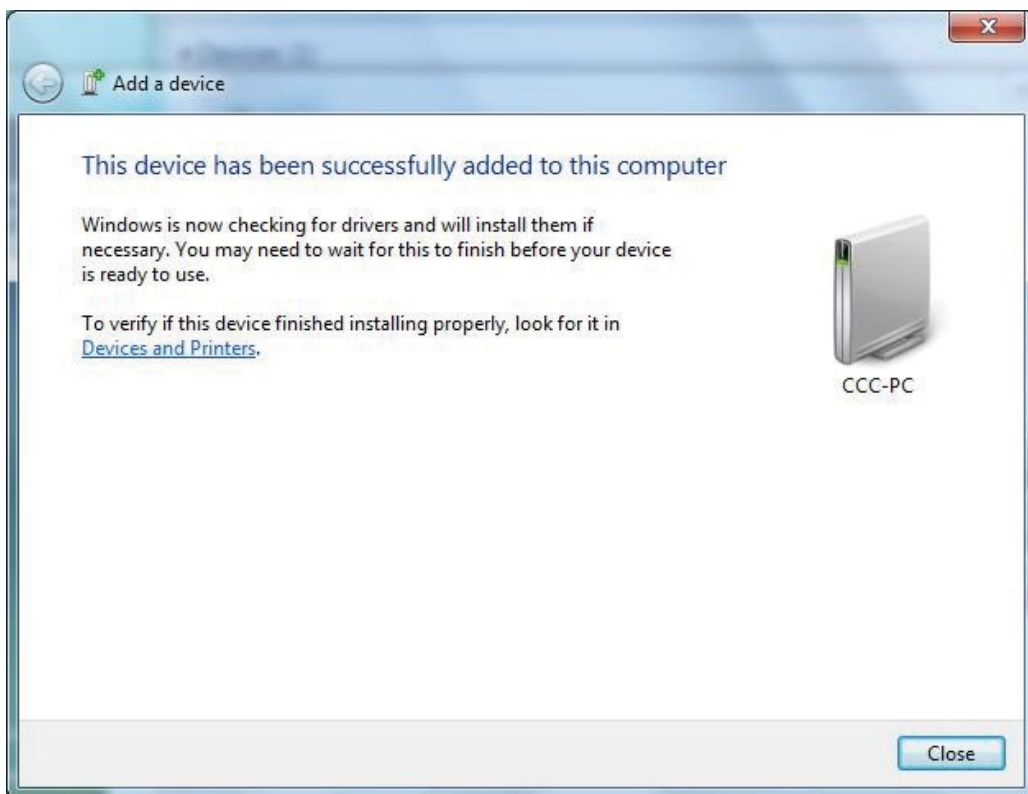
Windows generates the pairing code for security verification. Click **Yes** and **Next** to do pairing

Click **No** and **Next** to reject pairing

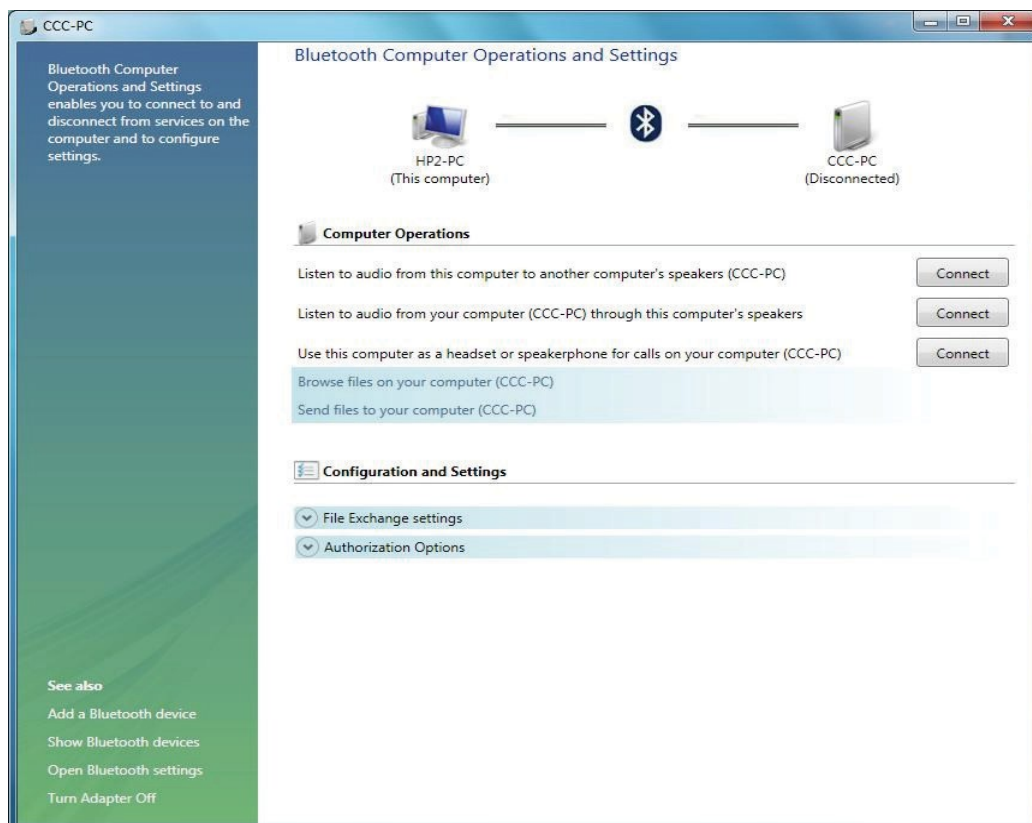
Click **The device is not displaying a code** and **Next** to pairing without showing code.



The window shows after pairing is done.



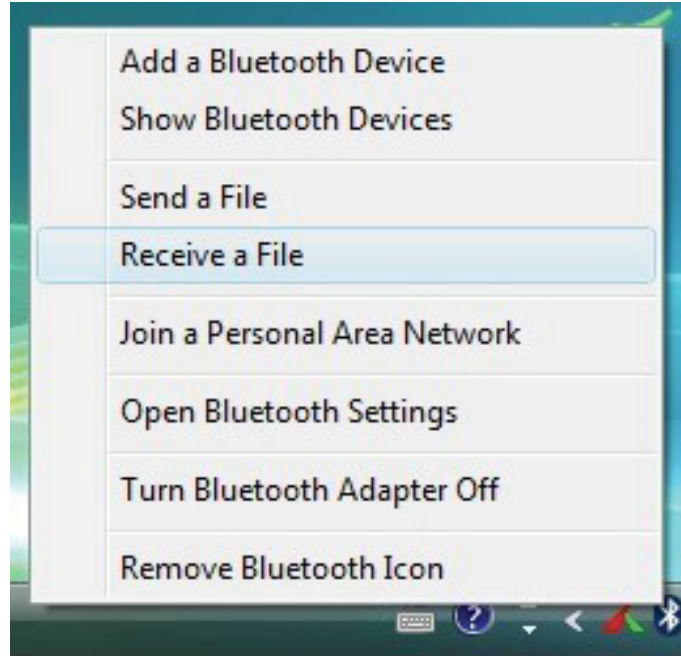
Click Close to show current connection status.



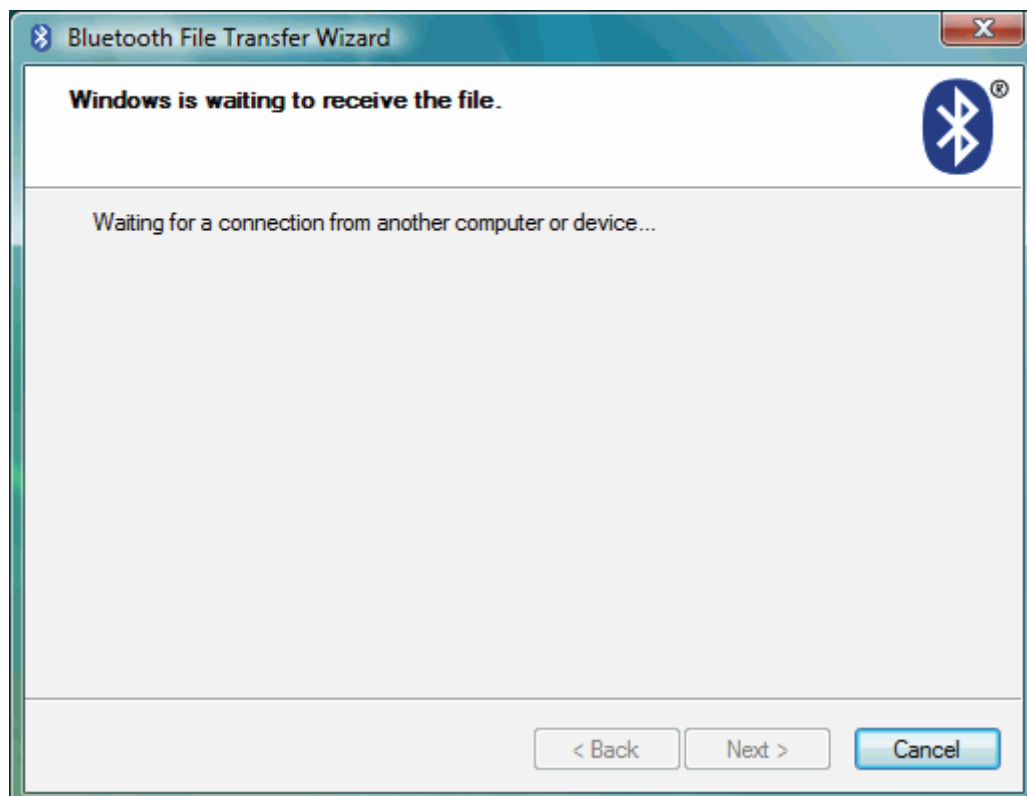
Sending Data from your phone

The Bluetooth stack protects your PC by making it invisible to other devices. However it still allows you to send information and files from a Phone or PDA, but you need to initiate the transfer from your PC.

To do this, click on the Bluetooth icon in the system tray and select **Receive a File**.



Bluetooth stack now makes your PC discoverable for a limited time, and also enables the file receive software. Once this is complete it shows the ready to receive screen.

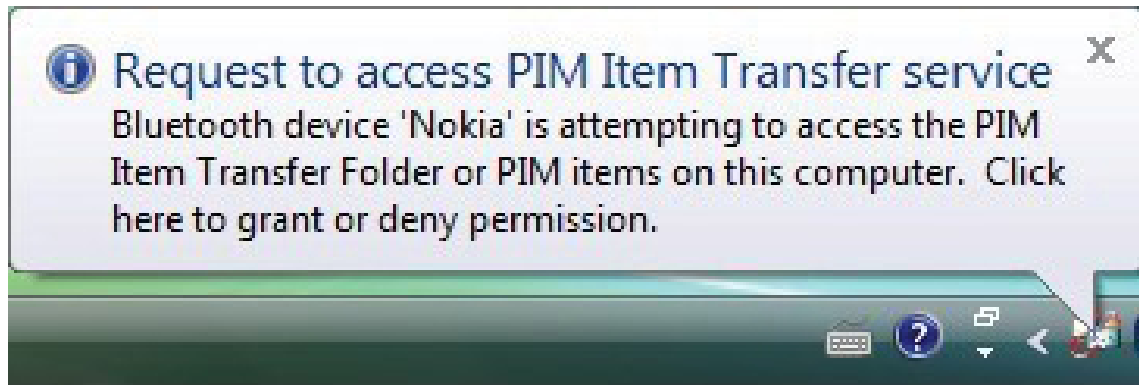


Now select the picture or file you want to send from your phone, and select the option to send it via Bluetooth. You should see a list of devices on your phone.

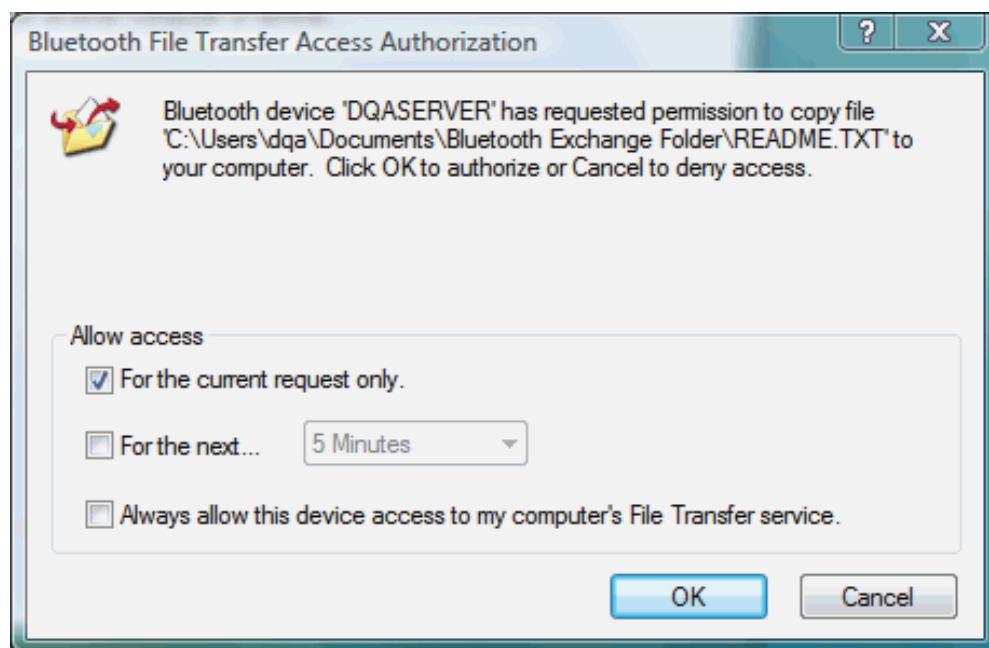
Note: It only allows access for a limited time. If your phone cannot find your PC it may be because you've taken too long. Check that the PC is still displaying the Waiting for a connection screen.

It will prompt out "Bluetooth File Transfer Access Authentication" window once your phone connects to Bluetooth device and ready to send.

Click to grant or deny



Note: Your virus checker may not scan files received via Bluetooth. It is a good idea to reserve a directory for incoming files and perform a virus check on this directory before opening them.



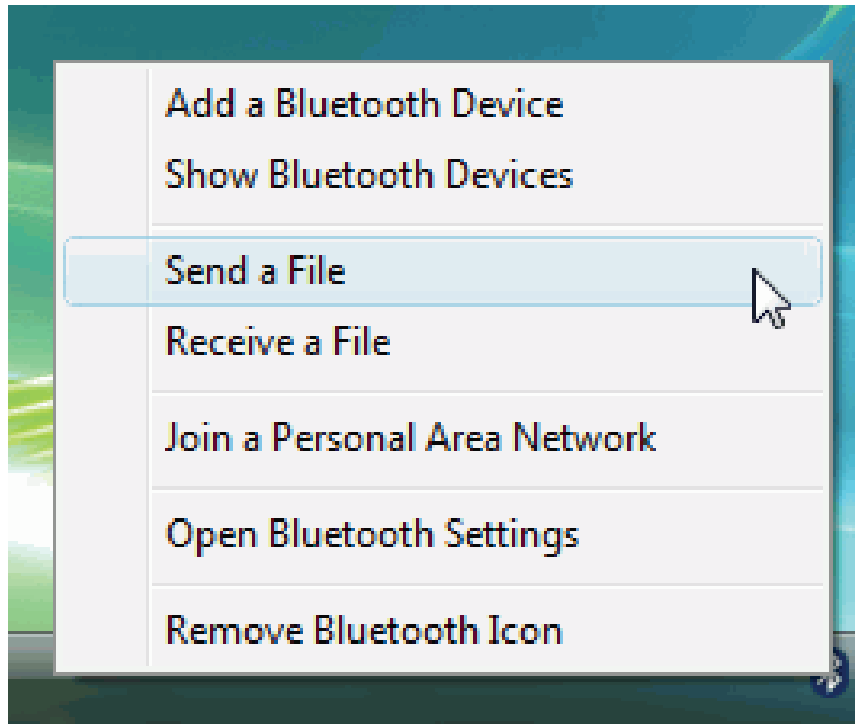
Note: This is the only way of receiving files using the Windows XP Bluetooth stack.

If you make the PC permanently discoverable you will still need to initiate File Receive from the Bluetooth icon.

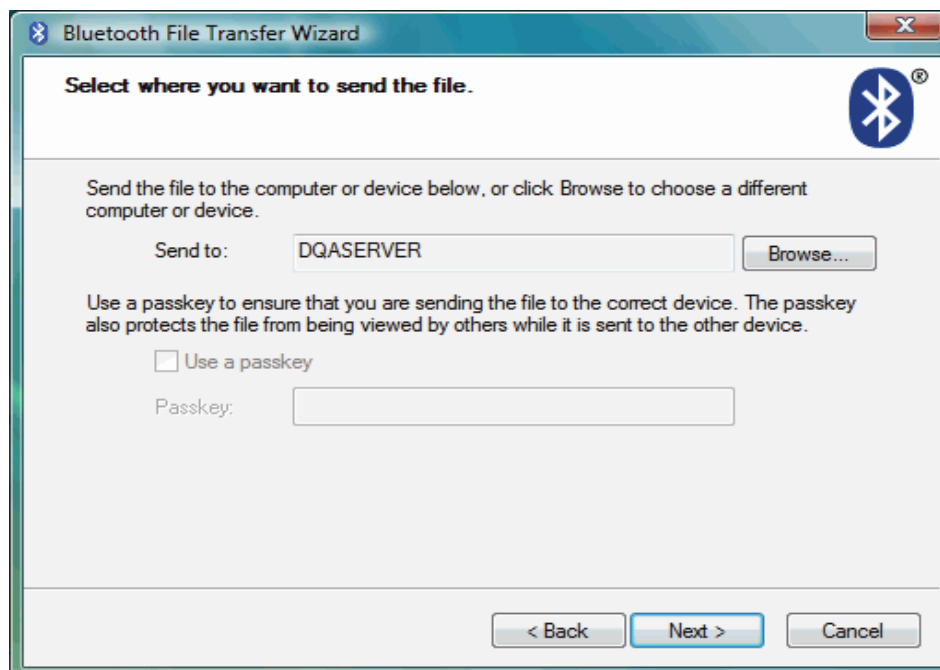
Sending files from your PC

It's very easy to send files to another Bluetooth device with the Bluetooth stack. Just right click on the file you want to send, and then select **Send a File** to Bluetooth Device. You can select a file from your desktop or a file list in Windows Explorer.

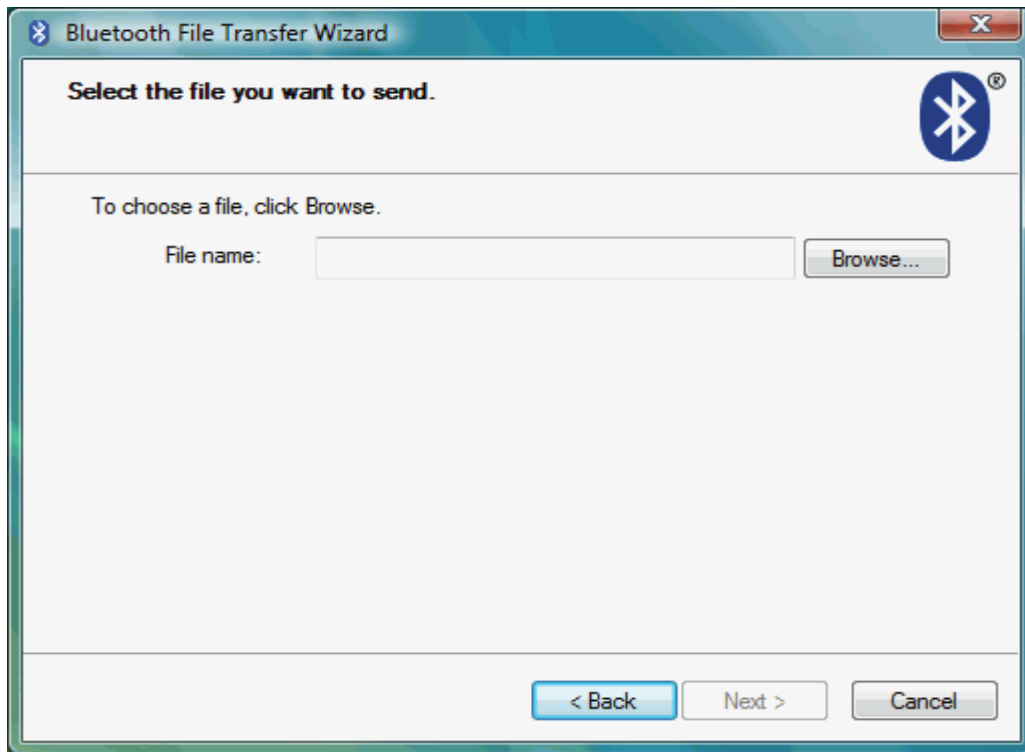
Note: You cannot currently send from the File, Send menus in Word, Exchange or other Office programs.



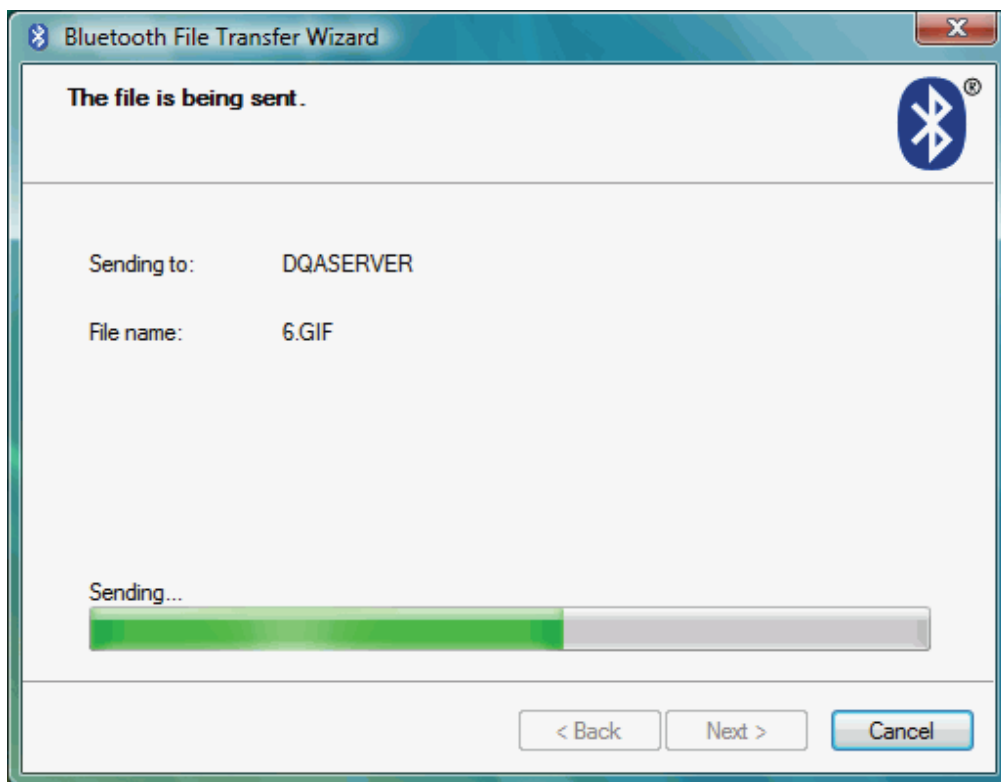
Windows will display a list of the devices that have been set up already (paired). Select the device you want to send the file to, or **Browse to find other devices**. (Other devices must be discoverable or set to Show to all). Then press **Next**.



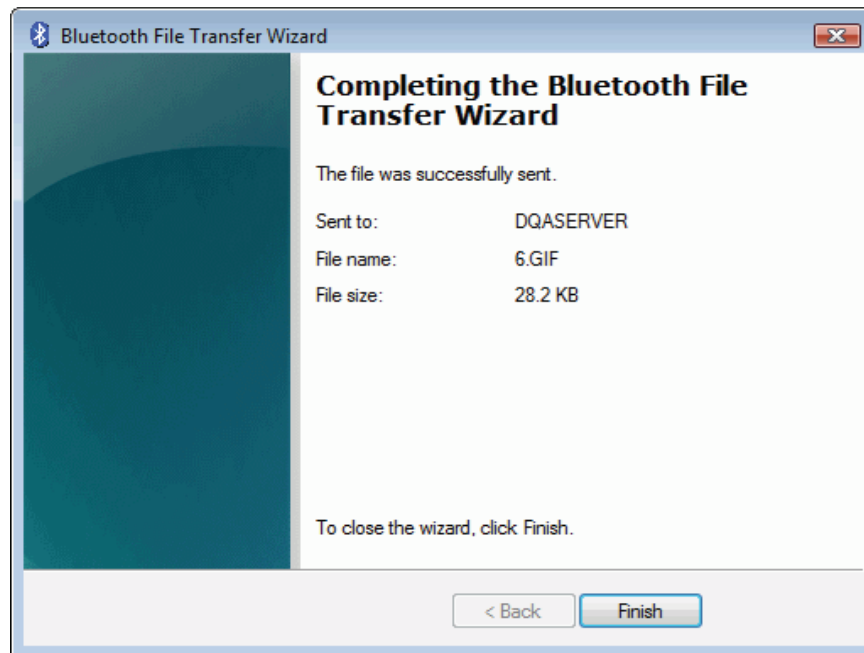
Click **Browse** to choose the file and click **Next** while you're ready to send out.



Show up file sending status window.

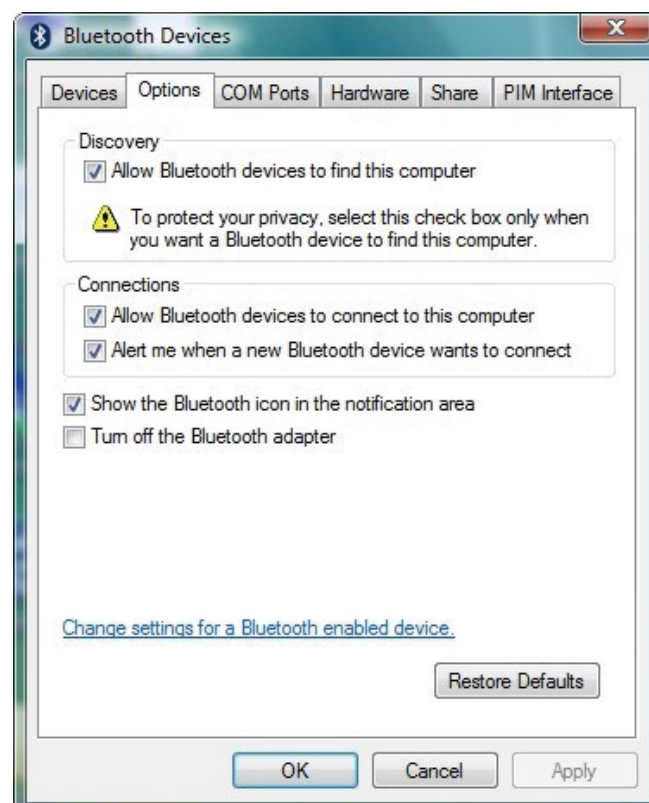


Once the transfer is complete, Windows will finish the Transfer Wizard and display details of the transfer.



Making your PC discoverable

The Bluetooth stack defaults to keeping your PC invisible. This is the safest way of operating Bluetooth on a PC. However, some applications may require the PC to be in discoverable mode. To change this, click on the Bluetooth Icon in the task bar and then select **Open Bluetooth settings**, then choose the **Options** tab. Select the **Turn discovery** on box and click **OK**.

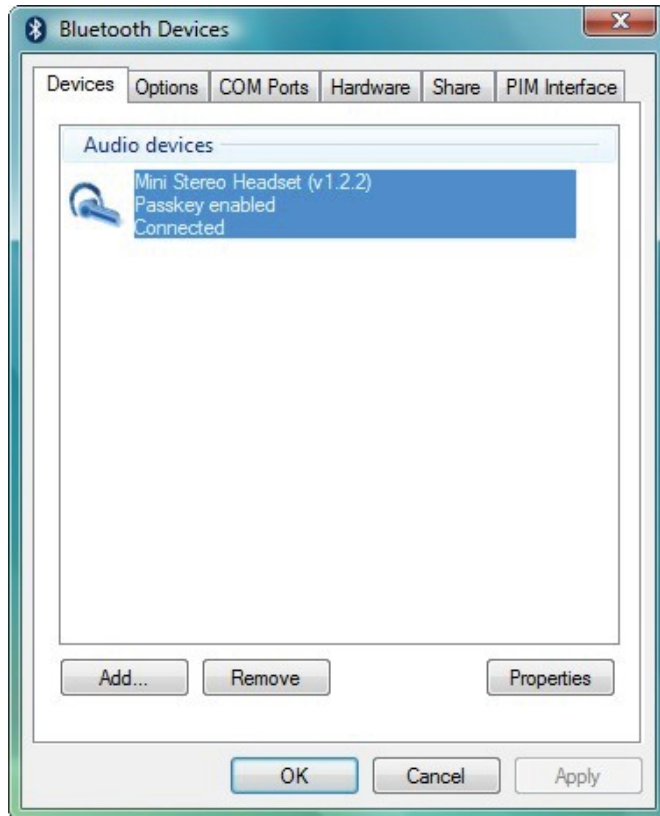


Printing to a Bluetooth Printer

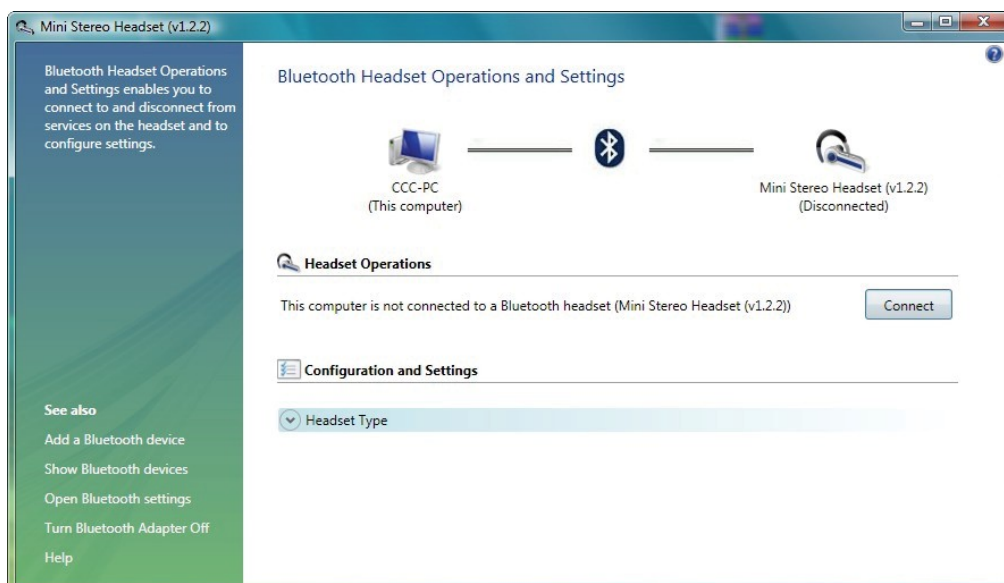
Refer to **Add a Bluetooth Device** to add Bluetooth printer. Bluetooth stack will install necessary drivers to activate Bluetooth printing service.

Connecting to a Bluetooth Audio

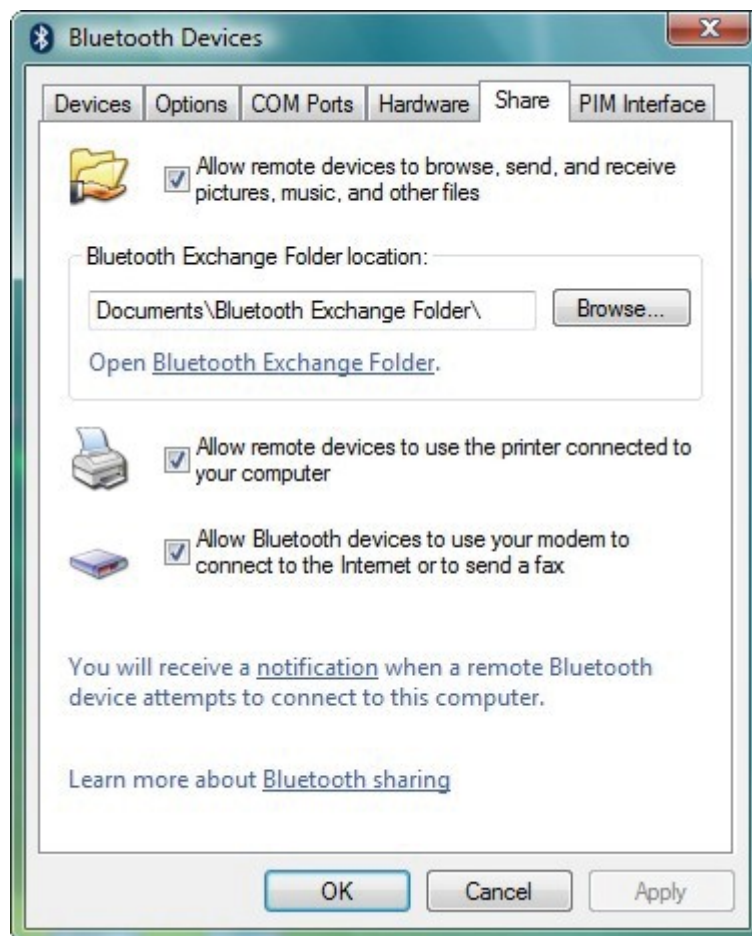
Connect audio device and click shortcut on desktop



Click button to Connect / Disconnect.

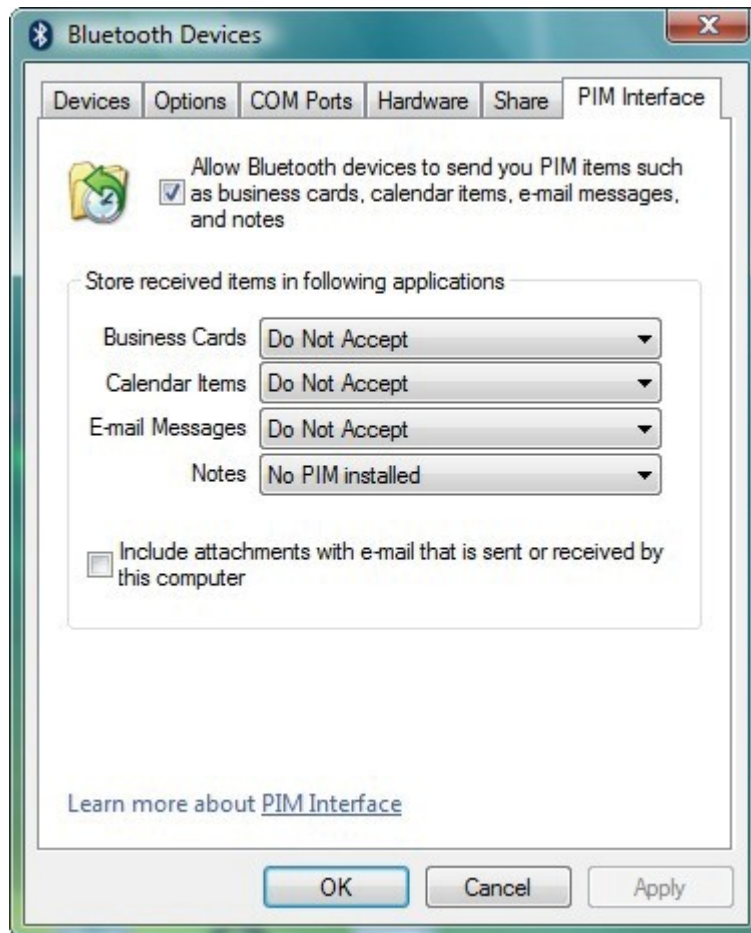


Bluetooth Share



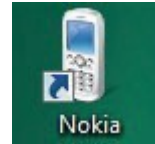
- **Allow remote devices to browse, send and receive pictures, music and other files**
Click checkbox to enable/disable share file types.
- **Bluetooth Exchange Folder location**
Click "Browse" to assign Bluetooth exchange folder
- **Allow remote devices to use the printer connected to your computer.**
Click checkbox to enable / disable Bluetooth printer connected to your computer
- **Allow Bluetooth devices to use your modem to connect to internet or to send a fax**
Click checkbox to enable/disable remote Bluetooth device to use local modem to surf internet
or send a fax.

Bluetooth PIM Interface

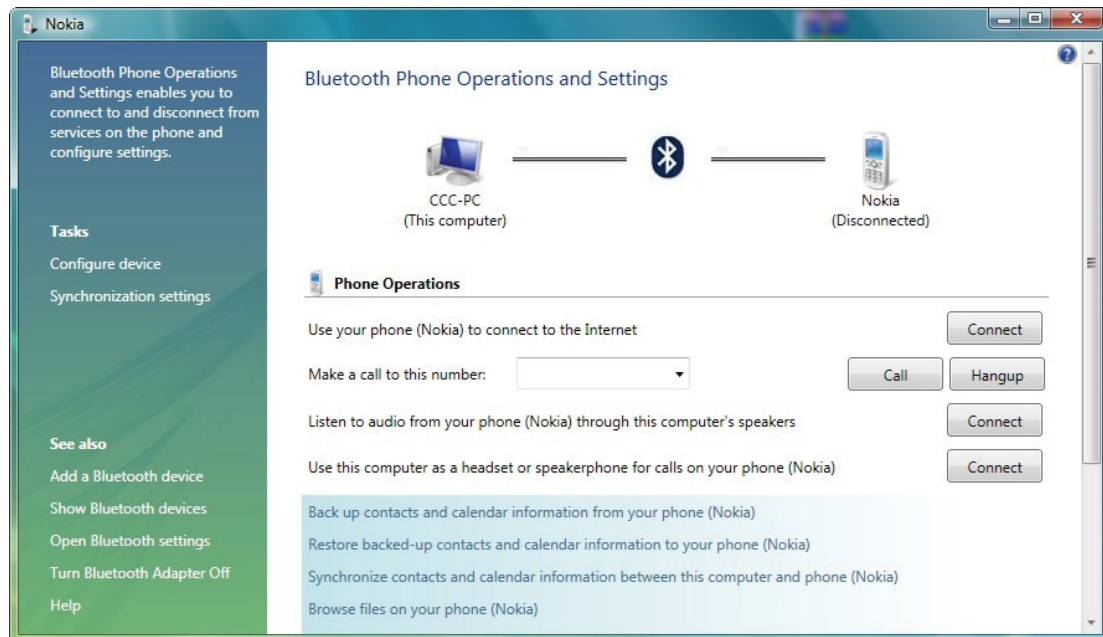


- **Allow Bluetooth devices to send you PIM items such as business cards, calendar items, e-mail messages and notes**
Click checkbox to enable/disable accept PIM items.
- **Store received items in following applications** Business Cards - Do Not Accept or Windows Mail
Calendar Items - Do Not Accept or Windows Calendar E-mail - Do Not Accept or Windows Mail
Notes – Do Not Accept
- **Include attachments with e-mail that is sent or received by this computer**
Click checkbox to enable/disable getting attachments.

Bluetooth Dial Up

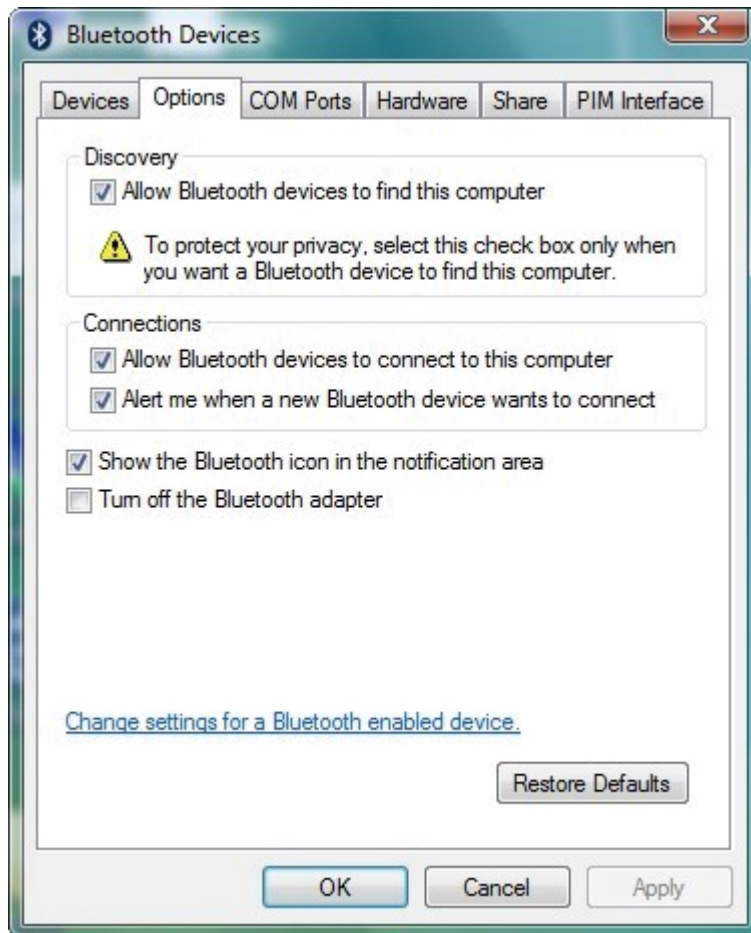


Connect phone and Click shortcut on desktop



- **Use your phone to connect to the Internet.**
Click button to Connect / Disconnect to Internet by phone.
- **Make a call to this number**
Input phone number and click button to Call / Hang up by phone
- **Listen to audio from your phone through this computer's speakers**
Click button to Connect / Disconnect your phone then listen audio.
- **Use this computer as a headset or speakerphone for calls on your phone.**
Click button to Connect / Disconnect headset communicating by your computer.

Bluetooth Options

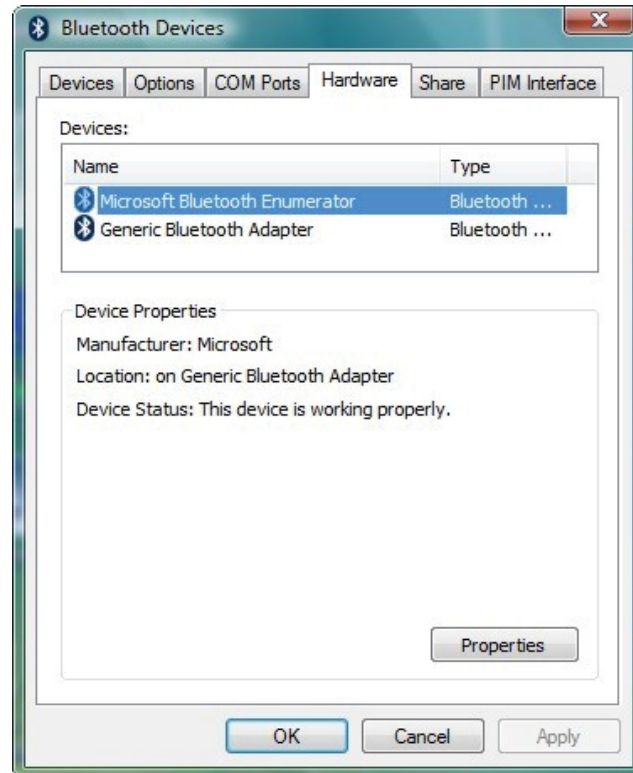


Discovery

- **Allow Bluetooth devices to find this computer**
Click checkbox to enable/disable if Bluetooth device is discovered.

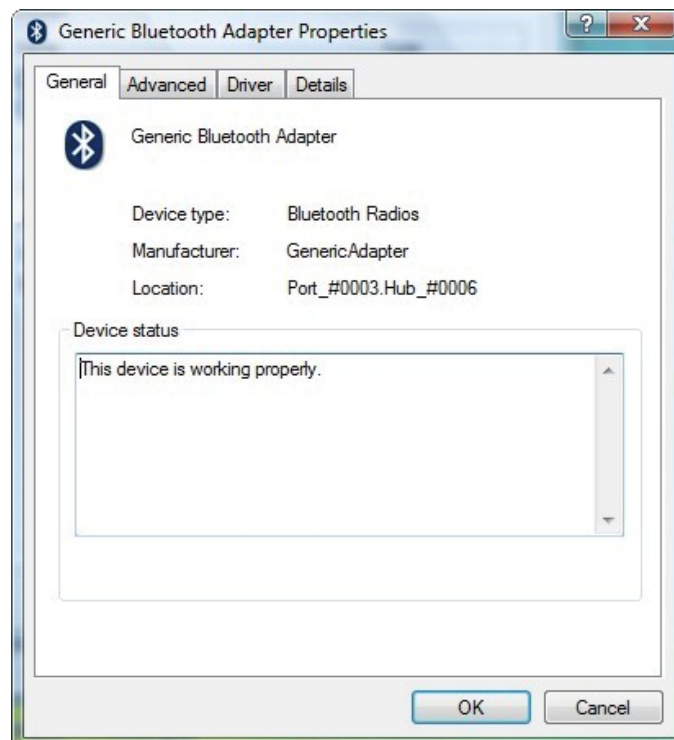
Connection

- **Allow Bluetooth devices to connect to this computer**
Click checkbox to enable/disable if Bluetooth device is connected.
- **Alert me when a new Bluetooth devices wants to connect**
Click checkbox to enable/disable alert message if Bluetooth device is connected.
- **Show the Bluetooth icon in the notification area**
Click checkbox to enable/disable icon shown in task bar.
- **Turn off the Bluetooth adapter.**
Click checkbox to turn off / on the device Bluetooth Hardware

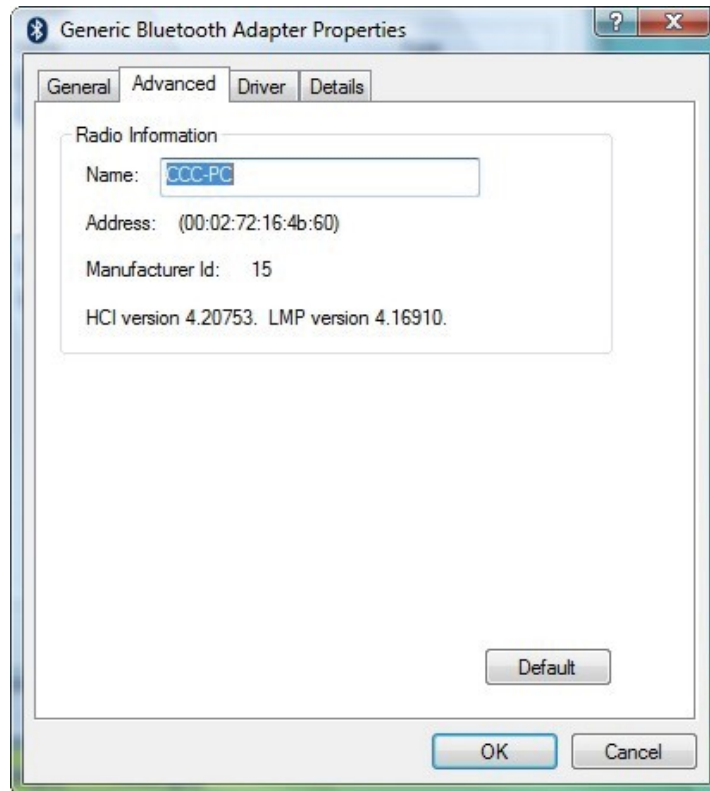


- Choose Broadcom Bluetooth 5.1 EDR USB Dongle and Click Properties to get hardware information in details.

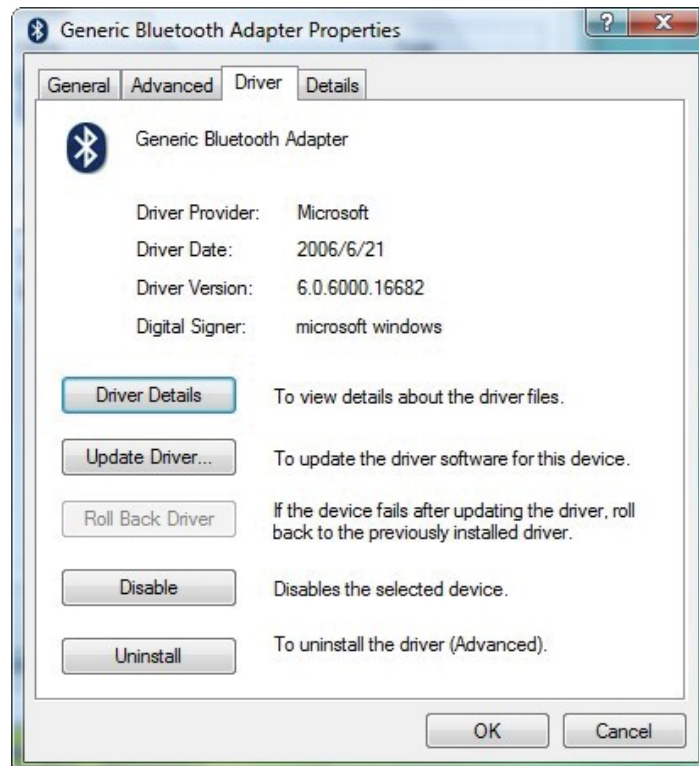
General



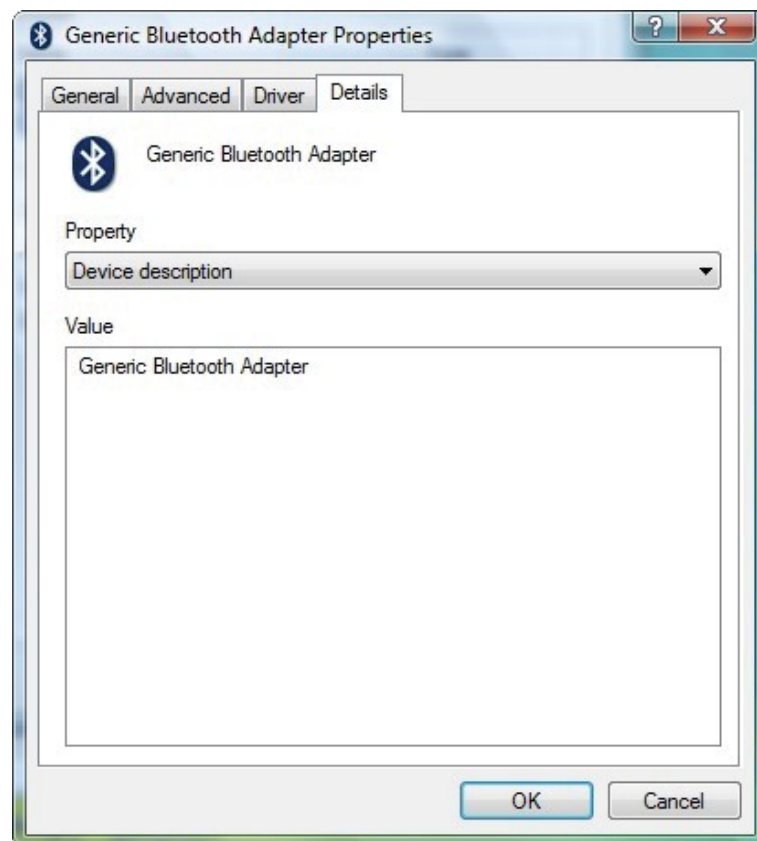
Advanced



Driver



Details



Frequency range: 2.4GHz (2400-2484MHz)

Transmission power: Bluetooth: EIRP: 3,15 dBm Maximum
Bluetooth BLE: EIRP: 1,86 dBm Maximum

Software version: 202107241135-B

Hardware version: V 1.0

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