

Using the Bluetooth™ Utility

Actual examples of how to establish a connection to a Bluetooth™ wireless technology device using the Bluetooth™ Utility are described in this section.

Also provided are descriptions of more convenient methods as well as detailed information on the Bluetooth™ Utility functions.

- I Flow of operation
- I Basic settings
- I Make the most of your Bluetooth™ wireless technology device
- I Advanced features
- I Details of Bluetooth™ Utility functions

Note

- I The Bluetooth™ Utility operates under Windows XP and Windows 2000.
The descriptions in the examples mainly pertain to operation under Windows XP.

Windows XP: Microsoft® Windows® XP Operating System

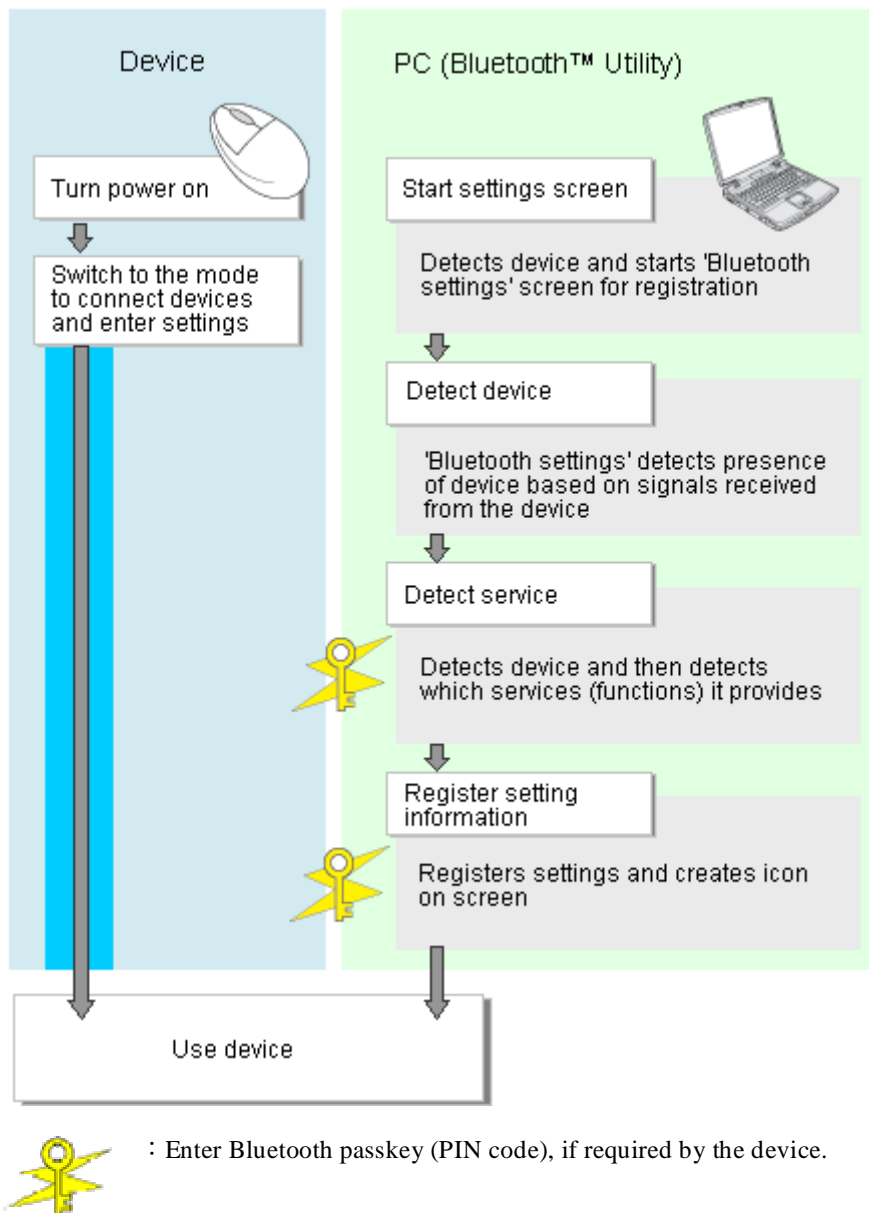
Windows 2000: Microsoft® Windows® 2000 Operating System

Flow of operation

The procedure below is used to set up Bluetooth™ wireless technology devices using the Bluetooth™ Utility.

Note

- It is assumed that the set-up is performed from the [Bluetooth Settings] window.



Basic settings

Methods for registering new devices using the Bluetooth™ Utility shall now be described. As an example, a Bluetooth™ wireless technology-compatible mouse shall be connected and configured using [Bluetooth Settings].

[Bluetooth Settings] provides two set-up methods: "Express Mode" and "Custom Mode."

■ Express Mode

[Bluetooth Settings] will automatically detect and register services. If several services (profiles) are supported by the device, the service that has been set to the highest priority shall be selected and registered.

Express Mode is normally recommended for device set-up.

■ Custom Mode

After having been detected, the services supported by the device are displayed as a list, from which you can select the desired function(s).

Custom Mode must be used to set up a device if, for example, you wish to use a modem station to send a fax (because in Express Mode, the DUN profile will be automatically selected since it has a higher priority than the FAX profile).

The differences between setting up the same device (a Bluetooth™ wireless technology-compatible mouse) using Express Mode and Custom Mode are described on the following pages.

Express Mode Set-up

The procedure for setting up the device using Express Mode shall now be described. In this case, a mouse device is used as sample device.

Starting Bluetooth Settings

Procedure

1. Right-click on the Bluetooth™ wireless technology icon in the task tray, and select [Bluetooth Settings] from the menu that appears.



Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings].
(Under Windows 2000, click [Start]→[Programs]→[Bluetooth]→[Bluetooth Settings].)

The [Bluetooth Settings] window will appear when other devices have already been registered.



Please click the [New Connection] button to open the [Add New Connection Wizard] window. If no devices have been registered yet, please proceed directly to "Detecting Bluetooth™ wireless technology Devices."

2. Switch the mouse power ON to make it connectable.
Please refer to the mouse instruction manual for details on this procedure.

3. Confirm that [Express Mode] has been selected in the [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window, and click on the [Next] button.



Searching for devices will start.



When the mouse has been detected, the name and address of the device will appear in the [Add New Connection Wizard (Select Device)] window.

Note

If no device is found, please confirm that the device has been made connectable, and click on the [Update] button.
A further device search will be performed.

4. Select the mouse device name from [Device List] and click on the [Next] button.



Searching for services will start.



Note

If several services (profiles) are supported by the device, the service that has been set to the highest priority shall be automatically selected and set up in Express Mode.

Please use Custom Mode if you wish to select desired services manually.

When a service has been detected, a window prompting you to enter the Bluetooth passkey (PIN code) may appear. Please enter the passkey and click on the [OK] button.

Please refer to your device instruction manual for information on which passkey to use.



If you have not entered your Bluetooth passkey after a certain amount of time has passed, the connection process will be cancelled for security reasons. Please perform the passkey entry process again.

5. Finally, the [Bluetooth Settings] window will automatically appear and the icons of the registered devices will appear and the devices will be ready to use.



Custom Mode Set-up

The procedure for setting up the device using Custom Mode shall now be described. In this case, a mouse device is used as sample device.

Starting Bluetooth Settings

Procedure

1. Right-click on the Bluetooth™ wireless technology icon in the task tray, and select [Bluetooth Settings] from the menu that appears.



Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings].
(Under Windows 2000, click [Start]→[Programs]→[Bluetooth]→[Bluetooth Settings].)

The [Bluetooth Settings] window will appear when other devices have already been registered.



Please click the [New Connection] button to open the [Add New Connection Wizard] window. If no devices have been registered yet, please proceed directly to "Detecting Bluetooth™ wireless technology Devices".

2. Switch the mouse power ON to make it connectable.
Please refer to the mouse instruction manual for details on this procedure.
3. Confirm that [Custom Mode] has been selected in the [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window, and click on the [Next] button.



Searching for devices will start.



When the mouse has been detected, the name and address of the device will appear in the [Add New Connection Wizard (Select Device)] window.



Note

If no device is found, please confirm that the device has been made connectable, and click on the [Update] button.

A further device search will be performed.

4. Select the mouse device name from [Device List] and click on the [Next] button



Searching for services will start.

**Note**

When a service has been detected, a window prompting you to enter the Bluetooth passkey (PIN code) may appear. Please enter the passkey and click on the [OK] button.

Please refer to your device instruction manual for information on which passkey to use.



If you have not entered your Bluetooth passkey after a certain amount of time has passed, the connection process will be cancelled for security reasons. Please perform the passkey entry process again.

The services supported by the device will be displayed.

5. Select the desired service and click on the [Next] button



Note

When a device supports several services

If the device supports several services, you can use Custom Mode to manually select the services (profiles) you wish to use from the list that appears under [Select Services].

If Express Mode is used to perform the set-up, the highest-priority service in the device will be automatically selected and configured.

6. Click on the [OK] button.



Note

When the settings information has been registered, a window prompting you to enter the Bluetooth passkey (PIN code) may appear. Please enter the passkey and click on the [OK] button. Please refer to your device instruction manual for information on which passkey to use.



If you have not entered your Bluetooth passkey after a certain amount of time has passed, the connection process will be cancelled for security reasons. Please perform the passkey entry process again.

The [Add New Connection Wizard (Connection Name Setup)] window will appear if a service has been properly detected.

7. Select the type and name of the icon to be displayed once the device has been registered, and click on the [Next] button.



Note

If you wish to change the icon, please click on the [Change Icon] button and select your preferred icon from the list that appears.



8. Click on the [Finish] button



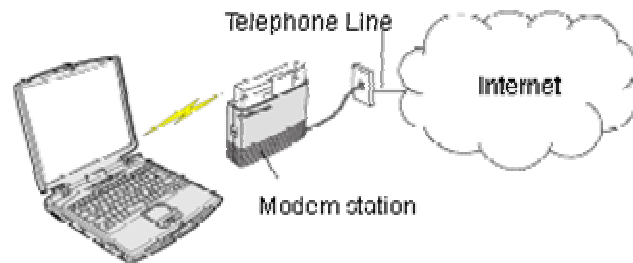
The [Bluetooth Settings] window will appear.

The icons of the registered devices will appear, and the devices will be ready to use.



Connecting to the Internet using a modem station [DUN]

You can use a BluetoothTM wireless modem to connect to the Internet via a telephone line.



Important

- | In order to connect to the Internet, you must have already signed up with a provider and obtained a connection ID and password. Please ensure you have confirmed the ID, password and telephone number of your provider's access point before you begin the set-up process.
- | Please refer to your instruction manual for information on connecting the modem station to a telephone line.
- | A Bluetooth passkey (PIN code) is required for you to connect to the modem station. Please make a note of your Bluetooth passkey before you start the set-up process.

Setting up the modem station

Procedure

1. Turn on the wireless modem station
2. Right-click the BluetoothTM wireless technology icon in the task tray, and then click on [Add New Connection]

Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window.

The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window will appear.

3. Confirm that [Express Mode] has been selected, and then click on the [Next] button.
The [Add New Connection Wizard (Searching for devices)] window will appear.
4. Select the device name of the wireless modem station from [Device List], and then click on the [Next] button.
The [Add New Connection Wizard (Searching for Services)] window will appear.

Once a service has been detected successfully, connection to the device and COM port creation will be performed automatically, after which the [Add New Connection Wizard (Modem Settings)] window will appear.

5. If you are connecting to a wireless modem station for the first time, enter the passkey for the modem station under [Bluetooth Passkey (PIN code)], and then click on the [OK] button.
Once the program has finished searching for the devices, the [Add New Connection Wizard (Device Selection)] window will appear.
6. Click on the [Next] button
Certain modems require you to configure initialization commands separately.
Please click on the [Additional initialization Command Settings] button, enter the initialization commands, and then click on the [OK] button.

Note

Please refer to the modem or mobile phone instruction manual for further details on the initialization commands.

7. Enter the connection name (optional), telephone number (of your provider's access point), user name and password (as issued by your provider), and then click on the [Finish] button.

Important

Please use your own telephone number, ID and password according to the arrangement with your provider.

The settings will be registered, and an icon will appear in the [Bluetooth Settings] window.

Connecting to the Internet

You can connect to the Internet by following the procedure below if the connection destination registered when you configured the wireless modem has been set as the default connection destination.

1. Start your browser, e-mail application or other application

Important

Please enter the e-mail settings separately if you are going to use e-mail (the set-up method will vary with the application).

2. Enter the URL of the Web page you wish to display and then press the [Enter] key, or use the e-mail tool to send/receive items or perform other activities.

The [Dial-up Connection] window will appear.


3. Click on the [Connect] button.

Important

A connection will be automatically established with the modem station if **COM Auto Connect** is available. If COM Auto Connect is not available, please **manually** connect to the modem station.

Once you have connected to the Internet, a balloon message and a connection icon will appear in the task tray. The web page appears and e-mails will be sent/received.

4. End the connection

A window will appear if you double-click on the  icon in the task bar. Please click on the [Disconnect] button when you want to disconnect from the Internet.

Alternatively, please right-click on the  icon, and then click on [Disconnect].

Note

1. You can start an application to make an automatic connection to the Internet, but you can also make a manual connection using the connection destination icon. The procedure is described below.

1. From the [Bluetooth Settings] window, right-click on the connection destination icon, and then click on [Connect] from the menu that appears.

A window indicating that the connection is being established will appear.

If the connection has been established successfully, a balloon message and the connection icon will appear in the task tray.



You will be able to browse Web pages using your browser and send and receive e-mail.

Important

Please enter the e-mail settings separately if you are going to use e-mail (the set-up method will vary with the application).

2. End the connection

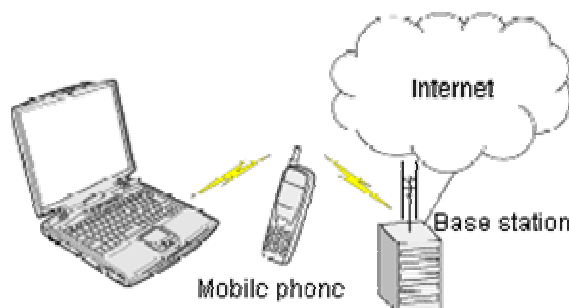
Right-click on the icon, and then click [Disconnect] to end the connection. A message will appear. Click on the [Yes] button.

When the icon appears as shown below, the connection will have ended.



Connecting to the Internet using a mobile telephone [DUN]

This section describes how to connect to the Internet via a telephone line, using a mobile telephone.



Important

- I In order to connect to the Internet, you must have already signed up with a provider and obtained a connection ID and password. Please ensure you have confirmed the ID, password and telephone number of your provider's access point before you begin the set-up process.
- I A Bluetooth passkey (PIN code) is required for you to connect to the mobile telephone. Please make a note of your Bluetooth passkey before you start the set-up process.

Configuring a mobile telephone for use as a modem

Procedure

1. Turn on the mobile telephone, and set it to be connectable

Note

Please refer to the mobile telephone instruction manual for information on how to operate the device.

2. Right-click on the Bluetooth™ wireless technology icon in the task tray, and then click on [Add New Connection]

Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window.

The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window will appear.

3. Confirm that [Express Mode] has been selected, and then click on the [Next] button.
The [Add New Connection Wizard (Searching for devices)] window will appear.
4. Select the device name of the mobile telephone from [Device List], and then click on the [Next] button.
The [Add New Connection Wizard (Searching for Services)] window will appear.

Once a service has been detected successfully, connection to the device and COM port creation will be performed automatically, after which the [Add New Connection Wizard (Modem Settings)] window will appear.

5. If you are connecting to a mobile telephone for the first time, enter the passkey for the wireless modem station under [Bluetooth Passkey (PIN code)], and then click on the [OK] button.
Once the program has finished searching for the devices, the [Add New Connection Wizard (Device Selection)] window will appear.
6. Click on the [Next] button
Certain modems require you to configure initialization commands separately.
Please click on the [Additional Initialization Command Settings] button, enter the initialization commands, and then click on the [OK] button.

Note

Please refer to the modem or mobile phone instruction manual for further details on the initialization commands.

7. Enter the connection name (optional), telephone number (of your provider's access point), user name and password (as issued by your provider), and then click on the [Finish] button.

Important

Please use your own telephone number, ID and password according to the arrangement with your provider.

The settings will be registered, and an icon will appear in the [Bluetooth Settings] window.



Connecting to the Internet

You can connect to the Internet by following the procedure below if the connection destination registered when you configured the mobile telephone has been set as the default connection destination.

1. Start your browser, e-mail application or other application

Important

Please enter the e-mail settings separately if you are going to use e-mail (the set-up method will vary with the application).

2. Enter the URL of the Web page you wish to display and then press the [Enter] key, or use the e-mail tool to send/receive items or perform other activities.
The [Dial-up Connection] window will appear.


3. Click on the [Connect] button

Important

A connection will be automatically established with the mobile telephone if COM Auto Connect is available. If COM Auto Connect is not available, please manually connect to the mobile telephone.

Once you have connected to the Internet, a balloon message and a connection icon will appear in the task tray. The web page appears and e-mails will be sent/received.

4. End the connection

A window will appear if you double-click on the  icon in the task bar. Please click on the [Disconnect] button when you want to disconnect from the Internet.

Alternatively, please right-click on the  icon, and then click on [Disconnect].

Note

1. You can start an application to make an automatic connection to the Internet, but you can also make a manual connection using the connection destination icon. The procedure is described below.

1. From the [Bluetooth Settings] window, right-click on the connection destination icon, and then click on [Connect] from the menu that appears

A window indicating that the connection is being established will appear.

If the connection has been established successfully, a balloon message and the connection icon will appear in the task tray.



You will be able to browse Web pages using your browser and send and receive e-mail.

Important

Please enter the e-mail settings separately if you are going to use e-mail (the set- up method will vary with the application).

2. End the connection

Right-click on the icon, and then click [Disconnect] to end a connection.

A message will appear. Click on the [Yes] button.

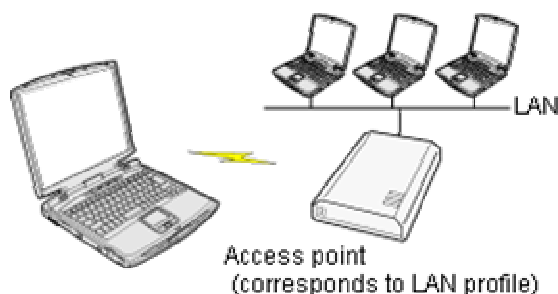
When the icon appears as shown below, the connection will have been ended.



Connecting to a LAN using an access point (LAP) [LAP]

This section describes how to connect to a network (for example, a company LAN or a personal home network) using a LAP profile-compatible access point.

Please refer to [Using an access point \(PAN\) to connect to a LAN](#) if you are using a PAN profile-compatible access point.



Important

- I The access point must have been started and a normal connection already established to the network before the access point is set up. Please refer to the access point instruction manual for information on how to set up the access point.
- I A Bluetooth passkey (PIN code) is required for you to connect to the access point. Please make a note of your Bluetooth passkey before you start the set-up process.

Setting up the access point

Procedure

1. Turn on the access point, and confirm that a connection has been established with the network
2. Right-click the Bluetooth™ wireless technology icon in the task tray, and then click on [Add New Connection]

Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window.

The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window will appear.

3. Confirm that [Express Mode] has been selected, and then click on the [Next] button

The [Add New Connection Wizard (Searching for devices)] window will appear.

Once the program has finished searching for the devices, the [Add New Connection Wizard (Device Selection)] window will appear.

4. Select the device name of the access point from [Device List], and then click on the [Next] button

The [Add New Connection Wizard (Searching for Services)] window will appear.

You will be asked for the Bluetooth passkey in the window that appears.

5. Enter the passkey under [Bluetooth Passkey (PIN code)], and then click on the [OK] button

Service detection and COM port creation will be performed automatically.

The [Add New Connection Wizard (Create Connection Destination)] window will appear.

6. Enter the connection name, user name and password, then click on the [Next] button

Note

The user name and password are entered here to allow you to connect to the access point.
The [Add New Connection Wizard (Confirm Dial-up Settings)] window will appear.

7. Click on the [Confirm Settings] button

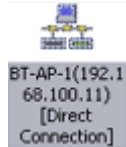
The [Internet Options] window will appear.

8. Configure the connection method, and then click on the [OK] button

Set the connection destination used for the LAN connection set up in (6) above as the default connection destination, and then select "Always dial my default connection."

9. Click on the [Next] button

The access point icon will be registered in the [Bluetooth Settings] window.



This will complete the access point set-up process.

Connecting to a LAN (LAP)

Procedure

1. Right-click on the connection icon in the [Bluetooth Settings] window, and then click on [Connect]

The [Dial-up Connection] window will appear.

2. Confirm that "Direct connection" has been selected under [Connection Destination], and then click on the [Connect] button

A connection will be initiated.

Note

This is an example of what happens when you use "Direct connection" as a connection name under "Connect to access point." If a name different from the connection name is used, that name will appear under [Connection Destination].

Please simply click on [Settings] if no user name or password have been entered (i.e., if those fields have been left blank)

Please change the connection destination if a different connection name (for a dial-up connection) appears in [Connection Destination].

Once you connect to the network, Internet Explorer will start automatically, and you will be able to exchange data with other computers on the network.

Note

Please follow the procedure below if you need to set up a proxy server to connect to the Internet (the following procedure is not necessary if the PC you are going to use has already been set up as a proxy server).

- 1 Select [Internet Options...] from the [Tools] menu in Internet Explorer


The [Internet Options] window will appear.

- 2 Click on the [Connections] tab, and then click on the [Settings...] button

- 3 Enter the IP address and port number of the proxy server under [Proxy Server], and then click on the [OK] button

3. End the connection

Right-click either on the connection icon under the [Bluetooth Settings] window or on

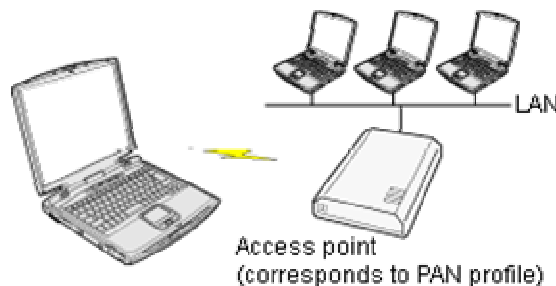
the  icon in the task tray, and then click on [Disconnect].

Click on the "Yes" button in the disconnection confirmation dialog box that appears.

Connecting to a LAN using an access point (PAN) [PAN]

This section describes how to connect to a network (for example, a company LAN or a personal home network) using a PAN profile-compatible access point.

Please refer to "[Using an access point \(LAP\) to connect to a LAN](#)" if you are using a LAP profile-compatible access point.



Important

- I The access point must be started and a normal connection already established to the network before the access point is set up. Please refer to the access point instruction manual for information on how to set up the access point.
- I A Bluetooth passkey (PIN code) is required for you to connect to the access point. Please make a note of your Bluetooth passkey before you start the set-up process.

Setting up the access point

Procedure

1. Turn on the access point, and confirm that a connection has been established with the network
2. Right-click the Bluetooth™ wireless technology icon in the task tray, and then click on [Add New Connection]

Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window.

The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window will appear.

3. Confirm that [Express Mode] has been selected, and then click on the [Next] button
The [Add New Connection Wizard (Searching for devices)] window will appear.

Once the program has finished searching for the devices, the [Add New Connection Wizard (Device Selection)] window will appear.

4. Select the device name of the access point from [Device List], and then click on the [Next] button
The [Add New Connection Wizard (Searching for Services)] window will appear. You will be asked

for the Bluetooth passkey in the window that appears.

5. Enter the passkey under [Bluetooth Passkey (PIN code)], and then click on the [OK] button
Service detection will be performed automatically.
The access point icon will be registered in the [Bluetooth Settings] window.



This will complete the access point set-up process.

Connecting to a LAN (PAN)

Procedure

1. **Right-click on the connection icon in the [Bluetooth Settings] window, and then click on [Connect]**

You will be asked for the Bluetooth passkey in the window that appears.

2. **Enter the passkey under [Bluetooth Passkey (PIN code)], and then click on the [OK] button**

A connection will be initiated.

Once you have connected to the network, Internet Explorer will start automatically, and you will be able to exchange data with other computers on the network.

Note

Please follow the procedure below if you need to set up a proxy server to connect to the Internet (the following procedure is not necessary if the PC you are going to use has already been set up as a proxy server).


- 1 **Select [Internet Options...] from the [Tools] menu in Internet Explorer**

The [Internet Options] window will appear.

- 2 **Click on the [Connections] tab, and then click on the [LAN Settings...] button**

- 3 **Enter the IP address and port number of the proxy server under [Proxy Server], and then click on the [OK] button**

3. **End the connection**

Right-click either on the connection icon under the [Bluetooth Settings] window or on the  icon in the task tray, and then click on [Disconnect].

Click on the "Yes" button in the disconnection confirmation dialog box that appears.

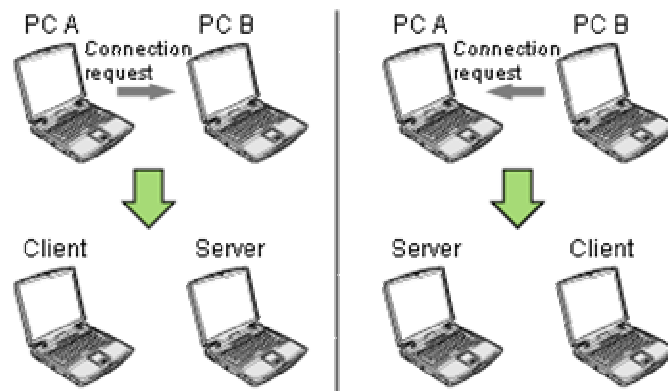
Building a personal area network [PAN]

You can use the PAN profile to build a network of Bluetooth™ wireless technology-enabled devices.



A personal area network comprises a client-server architecture. The device to which other devices connect is called the "server", and a device that connects to the server is called a "client."

The client-server relationship is not necessarily a fixed one. The first of two devices to establish a connection can be the server when one other device is present, and can be the client in other instances.

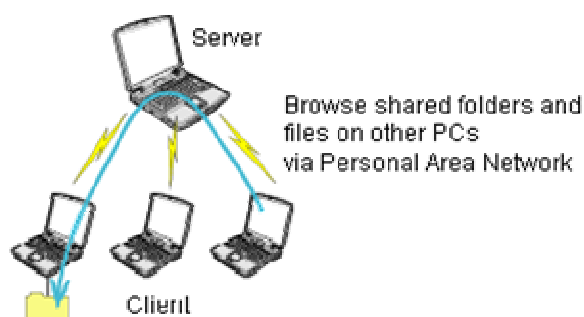


Note

- The maximum total number of devices that can be used to constitute a single personal area network is seven: one server and six clients. A network comprising as many as seven devices could theoretically be built, but a operating environment that involves the use of other Bluetooth™ wireless technology devices, leaving aside other complications, might require the network to comprise fewer components.

By using the PAN profile, you will be able to build a network that uses the same TCP/IP protocol used in regular LANs. Accordingly, the machine designated as the server can be used for configuration tasks that utilize DHCP, such as assigning IP addresses to clients.

In addition, you will be able to configure folder and file sharing, which will allow data to be browsed by other servers or clients on the network.



Important

! Please refer to Windows Help for further information on TCP/IP, DHCP and configurations for sharing.

Operating as a server

The following icon will appear in the tasktray when the PAN server function has been activated. Should the icon not appear, please follow the procedure below to activate the PAN server function.

1. Right-click the Bluetooth™ wireless technology icon in the task tray , click on [Option] and make sure the "PAN Networking Service" is checked in [Enable Services] under [General] tab.

A message will appear asking you to confirm whether you wish to activate the PAN group ad-hoc network.

2. Click the [Yes] button

The PAN server will be activated, and an icon will accordingly appear in the tasktray. Other devices that use the PAN profile will now be able to connect over the network.

Important

- ! When using the device as the server, make sure that all user accounts have a password set for the security reasons.
- ! The IP address of the server is automatically set up when it starts. Please do not change this IP address.
- ! When the device starts as the server, it starts the DHCP server function. We recommend that you should use the IP addresses provided from this DHCP server for the clients connected. Please do not change these IP addresses.

By clicking on the icon, the [Bluetooth PAN Server] window will appear. One client has established a connection below.

Note

- ! When you try to connect to another server as a client, the task tray icon will disappear, and your machine will not be able to function as a server in response to connection requests originating from other devices.
- ! During server starting, it is not possible to stop the DHCP server.

Operating as a client

Connecting to a server as a client is performed from the [Bluetooth Settings] window, as described below.

Procedure

1. Right-click on the Bluetooth™ wireless technology icon in the task tray, and click on [Add New Connection]

Note

Alternatively, click on [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings], and then on [New Connection] from the [Bluetooth Settings] window.

2. Confirm that [Express Mode] has been selected, and then click on the [Next] button

3. Click on the [Next] button in the advisory dialog box

The [Add New Connection Wizard (Searching for devices)] window will appear.

Once the program has finished searching for the devices, the [Add New Connection Wizard (Device Selection)] window will appear.

4. Select the name of the device designated as the server from [Device List], and then click on the [Next] button

The registered icon will appear in the [Bluetooth Settings] window.



■Connecting to a server

Procedure

1. Right-click on the icon in the [Bluetooth Settings] window, and then click on [Connect]

Once you have connected, the icon will change to indicate that the device is connected.



■Ending a connection to a server

Procedure

1. Right-click on the icon in the [Bluetooth Settings] window, and then click on [Disconnect]

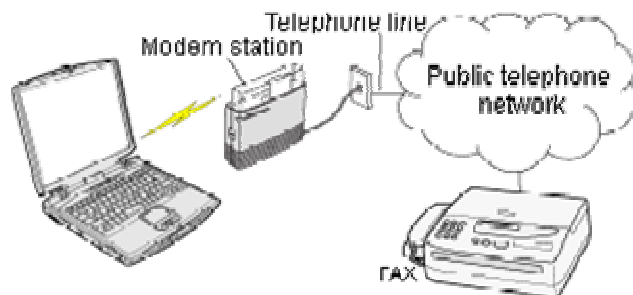
A message confirming whether you wish to disconnect will appear. Click on the [Yes] button.

Once you have disconnected, the icon will change to indicate that the device is not connected.



Using a modem station for fax transmissions [FAX]

This section describes how to send a fax using a Bluetooth™ wireless modem station.



Important

- ! Please refer to the modem station instruction manual for information on how to connect the station to a telephone line.
- ! Please ensure that any drivers used to connect the PC to the modem have been installed.
- ! A Bluetooth passkey (PIN code) is required for you to connect to the modem station. Please make a note of your Bluetooth passkey before you start the set-up process.
- ! A fax application is required for you to be able to send and receive faxes. The description below is based on an example using Microsoft Fax, which is installed with Windows XP as standard.
If you are going to use a commercially available fax application, then please refer to the manual that came with the application for information on how to send and receive faxes.

Setting up the modem station

Set up and register the modem station as a fax service.

Procedure

1. Turn on the wireless modem station

2. **Right-click on the Bluetooth™ wireless technology icon in the task tray, and then click on [Add New Connection]**

Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window.

The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window will appear.

3. Select [Custom Mode], and then click on the [Next] button

The [Add New Connection Wizard (Searching for devices)] window will appear. Once the program has finished searching for the devices, the [Add New Connection Wizard (Select Device)] window will appear.

4. Select the device name of the wireless modem station from [Device List], and then click on the [Next] button

The [Add New Connection Wizard (Searching for Services)] window will appear.

5. If you are connecting to the wireless modem station for the first time, enter the passkey for the device from the [Bluetooth Passkey (PIN Code)] window, and then click on the [OK] button

Once the program has finished searching for the services, the [Add New Connection Wizard (Select Service)] window will appear.

6. Select "Fax" under [Select Service], and then click on the [Next] button

The COM port and modem registration process dependent on your Bluetooth software conditions.

6.1 Case 1: COM port and modem registration process will be automatically performed

The COM port and modem registration process will then be automatically performed. Once the COM port and modem (standard 33600 bps type) registration is complete, the [Add New Connection Wizard (Setting Connection Name)] screen will appear.

6.2 Case 2: COM port and modem registration process will be manually performed

The COM port and modem registration process will then be manually performed using the original modem .inf file.

Once the COM port and modem registration is completed by following the wizard process, the [Add New Connection Wizard (Setting Connection Name)] screen will appear.

7. Configure the type and name of the icon to appear after registration, and click on the [Next] button.

Please click only on the [Next] button once you are satisfied with the configuration. The [Add New Connection Wizard (Completing the Add New Connection Wizard)] screen will appear.

8. Click on the [Finish] button

The settings will be registered, and the icon will appear on the [Bluetooth Settings] screen.



Setting FAX information

Configure send/receive settings and register fax information.

Procedure

1. Select [Start]→[Control Panel], and then double-click on the [Printers and Other Hardware] icon

Note

If the control panel is displayed in "Classic view", and you use Windows 2000, please start from Step (2).

2. Double-click on the [Printers and Faxes] icon

The [Printers & Faxes] window will appear.

3. Click on "Install a local fax printer" in the [Printers and Faxes] window

A window showing installed programs will appear, and a Fax icon will have been created in the [Printers and Faxes] screen.

4. Click on "Send a fax" under "Printer Tasks" on the left side of the window

If you have not yet configured a fax device, the [Fax Configuration Wizard] window will appear. In the window you can enter settings pertaining to the sender (yourself).

Note

If the fax configuration information has already been registered, the [Send Fax Wizard] window, which can be viewed under "[Sending a fax](#)" below, will appear instead of the [Fax Configuration Wizard] window.

5. Enter the sender information, and click on the [Next] button

Note

The sender information that you configure here will be automatically appended as header information when you send a fax.

The [Fax Configuration Wizard (Select Device for Sending or Receiving Faxes)] window will appear.

6. Select a device to be used for fax transmissions, enable the device for sending or receiving, and then click on the [Next] button

Note

If [Enable Receive] is selected, the device will be on standby for receiving faxes even if it is not sending or receiving anything, and therefore will be in continuous connection to the wireless modem (when [COM Auto Connect](#) is on).

Please decide whether to select this option based on the desired objective and/or frequency of transmission.

The [Fax Configuration Wizard (Transmitting Subscriber Identification (TSID))] window will appear.

7. Click on the [Next] button

It is important that you do not change the transmitter subscriber identification.

The [Fax Configuration Wizard (Completing the Fax Configuration Wizard)] window will appear.

8. Click on the [Finish] button

The fax information will be have been registered, and the [Fax Console] window will appear.

This will complete the fax set-up process.

Sending a fax

This section describes how to send a fax from the Fax Console.

Important

- 1 The Fax service must be enabled for sending in order for you to send a fax. Please refer to "[Using a wireless modem station](#)" under "Troubleshooting" for how to change the send and receive settings once the service has been configured.

Procedure

1. Double-click on the [Fax] icon in the Control Panel

The [Fax Console] window will appear.

2. In the [Fax Console] window, click [File]→[Send fax]

The [Send Fax Wizard (Starting the Send Fax Wizard)] window will appear.

3. Click on the [Next] button

The [Send Fax Wizard (Recipient Information)] window will appear.

4. Enter the name and fax number of the destination party, and then click on the [Next] button

The [Send Fax Wizard (Preparing the Cover Page)] window will appear.

5. Specify the cover page template, subject line, and note (body text), and then click on the [Next] button

The [Send Fax Wizard (Schedule)] window will appear.

6. If you wish to send the fax immediately, select "Now", and then click on the [Next] button

The [Send Fax Wizard (Completing the Send Fax Wizard)] window will appear.

7. Confirm the destination information and transmission details, and then click on the [Finish] button

The software will automatically dial the number and send the fax.

Once the fax has been sent, Fax Monitor will revert to standby mode.

Receiving a fax

This section describes what to do when a fax arrives after you have established a connection to a modem station.

Important

- I The Fax service must be enabled for receiving in order for you to receive a fax. Please refer to "[Using a wireless modem station](#)" under "Troubleshooting" for information on how to change the send and receive settings once the fax service has been configured.
- I Please ensure you have connected to a modem station before you receive a fax (the device will be connected to the modem if "Enable Receive" has been selected or [COM Auto Connect](#) has been activated).

Procedure

1. When a fax arrives, the Fax Monitor will start automatically as the fax is received

Once the fax has been received, the Fax Monitor will revert to standby mode.

Note

If you have enabled manual fax reception, a message will appear in the task tray. Click on the message

with your mouse to receive the fax.

2. Double-click on the [Fax] icon in the Control Panel

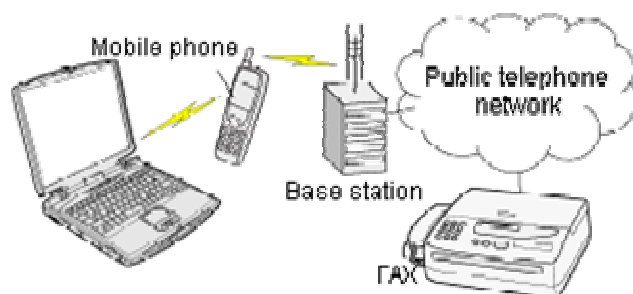
The [Fax Console] window will appear.

3. In the [Fax Console] window, double-click on the fax that has arrived

An image of the received fax will be displayed.

Using a mobile telephone for fax transmissions [FAX]

This section describes how to send a fax using a mobile telephone as a modem.



Important

- | Please ensure that any drivers used to connect the PC to the mobile telephone have been installed.
- | A Bluetooth passkey (PIN code) is required for you to connect to the mobile telephone. Please make a note of your Bluetooth passkey before you start the set-up process.
- | A fax application is required for you to be able to send and receive faxes. The description below is based on an example using Microsoft Fax, which is installed with Windows XP as standard.
If you are going to use a commercially available fax application, then please refer to the manual that came with the application for information on how to send and receive faxes.

Setting up the mobile telephone

Set up and register the mobile telephone as a fax service.

Procedure

1. Turn on the mobile telephone, and set it to be connectable

Note

Please refer to the instruction manual for information on how to operate the telephone.

2. Right-click on the Bluetooth™ wireless technology icon in the task tray, and then click on [Add New Connection]

Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window.

The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window will appear.

3. Select [Custom Mode], and then click on the [Next] button

The [Add New Connection Wizard (Searching for devices)] window will appear. Once the program has finished searching for the devices, the [Add New Connection Wizard (Select Device)] window will appear.

4. Select the device name of the mobile telephone from [Device List], and then click on the [Next] button

The [Add New Connection Wizard (Searching for Services)] window will appear.

5. If you are connecting to the mobile telephone for the first time, enter the passkey for the device from the [Bluetooth Passkey (PIN Code)] window, and then click on the [OK] button.

Once the program has finished searching for the services, the [Add New Connection Wizard (Select Service)] window will appear.

6. Select "Fax" under [Select Service], and then click on the [Next] button

The COM port and modem registration process dependent on your Bluetooth software conditions.

6.1 Case 1: COM port and modem registration process will be automatically performed

The COM port and modem registration process will then be automatically performed.

Once the COM port and modem (standard 33600 bps type) registration is complete, the [Add New Connection Wizard (Setting Connection Name)] screen will appear.

6.2 Case 2: COM port and modem registration process will be manually performed

The COM port and modem registration process will then be manually performed using the original modem .inf file.

Once the COM port and modem registration is completed by following the wizard process, the [Add New Connection Wizard (Setting Connection Name)] screen will appear.

7. Configure the type and name of the icon to appear after registration, and click on the [Next] button.

Please click only on the [Next] button once you are satisfied with the configuration. The [Add New Connection Wizard (Completing the Add New Connection Wizard)] screen will appear.

8. Click on the [Finish] button

The settings will be registered, and the icon will appear on the [Bluetooth Settings] screen.



Setting fax information

Configure send/receive settings and register fax information.

Procedure

1. Select [Start]→[Control Panel], and then double-click on the [Printers and Other Hardware] icon

Note

If the control panel is displayed in "Classic view", and you use Windows 2000, please start from Step (2).

2. Double-click on the [Printers and Faxes] icon

The [Printers & Faxes] window will appear.

3. Click on "Set up faxing" in the [Printers and Faxes] window

A window showing installed programs will appear, and a Fax icon will have been created in the [Printers and Faxes] screen.

4. Click on "Send a fax" under "Printer Tasks" on the left side of the window

If you have not yet configured a fax device, the [Fax Configuration Wizard] window will appear. In the window you can enter settings pertaining to the sender (yourself).

Note

If the fax configuration information has already been registered, the [Send Fax Wizard] window, which can be viewed under "[Sending a fax](#)" below, will appear instead of the [Fax Configuration Wizard] window.

5. Enter the sender information, and click on the [Next] button

Note

The sender information that you configure here will be automatically appended as header information when you send a fax.

The [Fax Configuration Wizard (Select Device for Sending or Receiving Faxes)] window will appear.

6. Select a device to be used for fax transmissions, enable the device for sending or receiving, and then click on the [Next] button

Note

If [Enable Receive] is selected, the device will be on standby for receiving faxes even if it is not sending or receiving anything, and therefore will be in continuous connection to the wireless modem (when COM Auto Connect is on).

Please decide whether to select this option based on the desired objective and/or frequency of transmission.

The [Fax Configuration Wizard (Transmitting Subscriber Identification (TSID))] window will appear.

7. Click on the [Next] button

It is important that you do not change the transmitter subscriber identification.

The [Fax Configuration Wizard (Completing the Fax Configuration Wizard)] window will appear.

8. Click on the [Finish] button

The fax information will have been registered, and the [Fax Console] window will appear.

This will complete the fax set-up process.

Sending a fax

This section describes how to send a fax from the Fax Console.

Important

- 1 The Fax service must be enabled for sending in order for you to send a fax.
Please refer to "[Using a mobile telephone](#)" under "Troubleshooting" for how to change the send and receive settings once the service has been configured."

Procedure

1. Double-click on the [Fax] icon in the Control Panel

The [Fax Console] window will appear.

2. In the [Fax Console] window, click [File]→[Send fax]

The [Send Fax Wizard (Starting the Send Fax Wizard)] window will appear.

3. Click on the [Next] button

The [Send Fax Wizard (Recipient Information)] window will appear.

4. Enter the name and fax number of the destination party, and then click on the [Next] button

The [Send Fax Wizard (Preparing the Cover Page)] window will appear.

5. Specify the cover page template, subject line, and note (body text), and then click on the [Next] button

The [Send Fax Wizard (Schedule)] window will appear.

6. If you wish to send the fax immediately, select "Now", and then click on the [Next] button

The [Send Fax Wizard (Completing the Send Fax Wizard)] window will appear.

7. Confirm the destination information and transmission details, and then click on the [Finish] button

The software will automatically dial the number and send the fax.

Once the fax has been sent, Fax Monitor will revert to standby mode.

Receiving a fax

This section describes what to do when a fax arrives after you have established a connection to a modem station.

Important

- I The Fax service must be enabled for receiving in order for you to receive a fax.
Please refer to "[Using a mobile telephone](#)" under "Troubleshooting" for information on how to change the send and receive settings once the fax service has been configured.
- I Please ensure you have connected to a modem station before you receive a fax (the device will be connected to the modem if "Enable Receive" has been selected or [COM Auto Connect](#) has been activated).

Procedure

1. When a fax arrives, the Fax Monitor will start automatically as the fax is received

Once the fax has been received, the Fax Monitor will revert to standby mode.

Note

If you have enabled manual fax reception, a message will appear when a fax arrives.

Click on the message with your mouse to receive the fax.

2. Double-click on the [Fax] icon in the Control Panel

The [Fax Console] window will appear.

3. In the [Fax Console] window, double-click on the fax that has arrived

An image of the received fax will be displayed.

Printing

This section describes how to use a Bluetooth™ wireless technology-compatible printer for printing.

Types of printer functions

When printing using Bluetooth™ wireless technology, the methods for configuring and using the printer will vary with the corresponding profile.

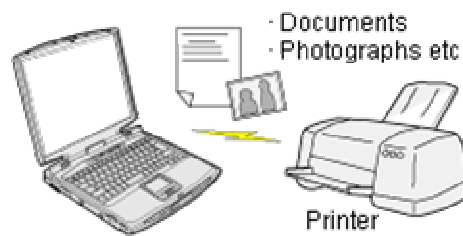
| Profile | Bluetooth Settings | Operation |
|-----------|---|---|
| HCRP (*1) | You must register the printer in Bluetooth Settings | Allows you to print from various applications, as with ordinary cable-connected printers. → "Printing document and images" |
| SPP | | |
| OPP (*2) | Not required | Allows you to print business card data directly. → "Printing business card data" |
| BIP | Not required | Allows you to print image data directly. → "Printing images directly from a digital camera or other device" |

Note

- ! (*1) The majority of Bluetooth™ wireless technology-compatible printers support HCRP. If you have selected Express Mode, HCRP will be chosen as the default profile. If the printer does not support HCRP, then SPP will be the next choice.
- ! (*2) The printing of business cards using OPP complies exclusively with the business card (vCARD) standard.

Printing documents and images [HCRP] [SPP]

This section describes how to print using a Bluetooth™ wireless technology-compatible printer.



Important

- 1 Please ensure that any printer-specific drivers have been installed on the PC before you have established a Bluetooth™ wireless technology connection.
- 1 A Bluetooth passkey (PIN code) is required for you to connect to the printer. Please make a note of your Bluetooth passkey before you start the set-up process.

Setting up the printer

Procedure

1. Turn on the printer

2. **Right-click on the Bluetooth™ wireless technology icon in the task tray, and then click on [Add New Connection]**

Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window.

The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window will appear.

3. **Confirm that [Express Mode] has been selected, and then click on the [Next] button**

The [Add New Connection Wizard (Searching for devices)] window will appear. Once the program has finished searching for the devices, the [Add New Connection Wizard (Device Selection)] window will appear.

4. **Select the device name of the printer from [Device List], and then click on the [Next] button**

The [Add New Connection Wizard (Searching for Services)] window will appear.

5. **If you are connecting to the printer for the first time, enter the passkey for the device from the [Bluetooth Passkey (PIN Code)] window, and then click on the [OK] button.**

Once the services have been detected successfully, connection to the device and creation of the HCRP port will be performed automatically.

If you have not yet installed a printer, a message prompting you to install a printer will appear.

6. **Click on the [OK] button**

The [Add Printer Wizard (Starting the Add Printer Wizard)] window will appear.

7. **Click on the [Next] button**

The [Add Printer Wizard (Local Printer or Network Printer)] window will appear.

8. Select "Local printer attached to this computer", remove the check next to "Automatically detect and install my Plug and Play printer", and then click on the [Next] button

The [Add Printer Wizard (Select Printer Port)] window will appear.

9. Select the desired port, and then click on the [Next] button

The [Add Printer Wizard (Install Printer Software)] window will appear.

10. Select the [Manufacturer] and [Printer] as pertains to the printer to be installed, or click on the [Use Device] button, and then click on the [Next] button

Please install the printer according to the instructions in the windows that follow. Once installation is complete, a message of confirmation will appear in the [Add New Connection Wizard (Printer Settings)] window.

11. Click on [Next]

The registered icon will appear in the [Bluetooth Settings] window.

Note

You can change the connection icon and icon name.

Printing

Try to print from the message pad.

1. Click [File]→[Print]

The [Print] screen will appear.

2. Select wireless printer from under [Select Printer], and then click on the [Print] button

Printing will commence.

Note

! If you have connected to a printer using HCRP or SPP profiles, all future Bluetooth™ wireless technology connections to that printer will be established automatically once you have printed a document from your PC.

Printing images directly from a digital camera or other device[BIP]

If you have a printer that supports BIP (Basic Imaging Profile), you can send images directly to a printer to be printed out, without having to perform any special set-up procedure.



Note

Below is a list of file types (extensions) of images that can be printed out directly.

- Bitmap (*.bmp)
- JPEG (*.jpg; *.jpeg)
- PNG (*.png)

Procedure

■Printing image files on a printer (using icons)

1. Turn on the printer

2. Open Bluetooth Information Exchanger

Note

Please refer to Contents of the Bluetooth™ Utility on how to open Bluetooth Information Exchanger

3. Double-click on the [Image Transfer] icon

A list of devices will appear in the [Image Transfer] window.

Note

If your desired printer does not appear in the list, please confirm that the printer has been turned on, and then click on [Bluetooth]→[Search Devices] A device search will be performed.

4. Drag and drop the file to be sent on top of the icon of the destination printer

The file will be sent to the printer.

If the file has been sent to the printer successfully, a message will appear, and the image will be printed out. Please click on the [OK] button.

A message will appear if the file transmission was unsuccessful. Please click on the [OK] button to close the message, and repeat the printing procedure.

Note

If the printer does not support the BIP profile, a message will appear.

■Printing image files to a printer (by right-clicking the mouse)

1. Turn on the printer

2. Right-click on the file to be sent, and then click on the destination printer under [to Bluetooth]

Note

If your desired device does not appear in the list, please confirm that the device has been turned on, and then click on [to Bluetooth] →[Search Other Devices]

Once the device has been detected, select the destination device and click on the [Send] button.

A window indicating that the file is being sent to the printer will appear.

If the file has been sent to the printer successfully, a message will appear, and the image will be printed out. Please click on the [OK] button.

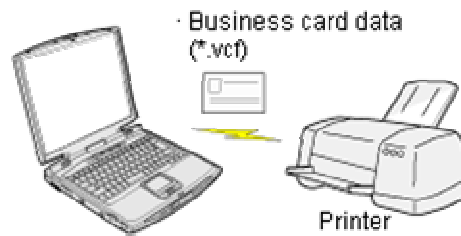
A message will appear if the file transmission was unsuccessful. Please click on the [OK] button to close the message, and repeat the printing procedure.

Note

If the printer does not support the BIP profile, a message will appear.

Printing business card data [OPP]

If you have a printer that supports OPP (Object Push Profile), you can directly send business card data that conforms to the "vCard" standard to a printer and print it out.



Procedure

■Printing business card data (using icons)

1. Turn on the printer

2. Open Bluetooth Information Exchanger

Note

Please refer to Contents of the Bluetooth™ Utility on how to open Bluetooth Information Exchanger

3. Double-click on the [Object Push] icon

A list of devices will appear in the [Object Push] window. Here, the image will be sent to the target printer.

Note

If your desired printer does not appear in the list, please confirm that the printer has been turned on, and then click on [Bluetooth]→[Search Devices] A device search will be performed.

4. Drag and drop the business card data to be sent on top of the icon of the destination printer

The business card will be sent to the printer.

If the business card has been sent to the printer successfully, a message will appear, and the image will be printed out. Please click on the [OK] button.

A message will appear if the business card transmission was unsuccessful. Please click on the [OK] button to close the message, and repeat the printing procedure.

■Printing business card data (by right-clicking the mouse)

1. Turn on the printer

2. Right-click on the business card data to be sent, and then click on the destination printer under [to Bluetooth]

Note

If your desired device does not appear in the list, please confirm that the device has been turned on, and then click on [to Bluetooth] →[Search Other Devices]

Once the device has been detected, select the destination device, and click on the [Send] button.

The business card will be sent to the printer.

If the business card has been sent to the printer successfully, a message will appear, and the image will be printed out. Please click on the [OK] button.

A message will appear if the business card transmission was unsuccessful. Please click on the [OK] button to close the message, and repeat the printing procedure.

Listening to music using the stereo headphones [GAVDP] [A2DP] [AVRCP]

This section describes how to use the stereo headphones to listen to your favourite music or other audio files stored on your PC.



Configuring the stereo headphones

Procedure

1. **Right-click on the Bluetooth™ wireless technology icon in the task tray, and click on [Add New Connection].**

Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings], and then click on [New Connection] from the [Bluetooth Settings] screen that has opened.

The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] will appear.

2. **Switch ON the stereo headphones and activate "Discoverable" mode**

Please refer to the user guide for the stereo headphones for further information on how to operate them.

3. **Confirm that [Express Mode] has been selected, and then click on the [Next] button**

The [Add New Connection Wizard (Searching for Devices)] screen will appear.

Once the search for the devices has ended, the [Add New Connection Wizard (Select Device)] screen will appear.

4. **Select the device name of the stereo headphones from the list, and click on the [Next] button**

The [Add New Connection Wizard (Searching for Services)] screen will appear.

The settings will be registered, and the icon will appear on the [Bluetooth Settings] screen.



Connecting to the stereo headphones

You can connect to the stereo headphones from the icon registered in [Bluetooth Settings]. Please refer to the user guide for information on how to make a connection from the stereo headphones.

Important

- 1 Please close the following audio applications before any connection is made between your stereo headphones and PC.

- Ⓞ Music/video playback applications
- Ⓞ e-Conferencing applications
- Ⓞ Voice-recognition applications

Please finish connecting the stereo headphones before launching any of these applications.

Listening to music or other audio files

1. Playing music or other audio files on your PC

Important

Please confirm the points below if you are unable to hear anything despite having properly connected the stereo headphones.

Click [Start]→[All Programs]→[Accessories]→[Entertainment]→[Volume Control].

Remove the tick next to [Mute] if it has been ticked. If the volume is at its lowest setting, please adjust it to an appropriate level.

Music playback may be interrupted if other Bluetooth™ wireless technology devices are currently connected to your PC. When you are listening to music, it is recommended that the stereo headphones be the only connected device.

Music playback may be interrupted if you are some distance away from the PC, or if there are any obstructions between you and the PC.

If you are unable to hear any sound out of your stereo headphones while music or audio is currently playing in a related application, please stop the files being played, open [Sounds and Audio Devices] from the Control Panel, and change the default device to "Toshiba Bluetooth Wave."

If you are still unable to hear any sound from the stereo headphones even after having set "Toshiba Bluetooth Wave" as the default device, please re-launch the application.

2. Finishing listening to music and disconnecting

1. **Right-click on the icon for the currently connected mode from [Bluetooth Settings] on your PC, and click on "Disconnect."**

A message confirming the disconnection may appear.

2. **Click on the "Yes" button after having followed the instructions in the message.**

The icon will indicate that the device has been disconnected.

Important

Please close the following audio applications before you disconnect the stereo headphones from your PC:

- Music/video playback applications
- e-Conferencing applications
- Voice-recognition applications

Please completely disconnect the stereo headphones before launching any of these applications.

Please refer to the user guide for information on terminating a connection from the stereo headphones.

Playing music using remote control

Music applications and video playback applications installed on your PC(e.g., "Windows Media Player 9" and "InterVideo WinDVD") may be operated with the remote control button/switch on your stereo headphones.

The remote control used with the stereo headphones must be compliant with the Bluetooth™ wireless technology AVRCP profile. Please refer to the headphones user guide for further information.

You can configure the application to be operated using the switch/button according to the following procedure.

Procedure

1. **Double-click on the Bluetooth™ wireless technology icon in the taskbar**

Launches "Bluetooth Settings."

2. **Right-Click the Bluetooth(TM) Wireless Technology icon and Click on [Options]->[Other] Tab ->[Av Player] in [AV player section]**

The [Select AV Player] screen will appear.

3. **Select the application, and click on the [OK] button**

The functions and switch/button that can be operated may differ depending on the application used for music/video playback as well as the version.

The procedure below can be performed in order to change the position where the receive command is displayed or to not have the command displayed.

Procedure

1. **Double-click on the Bluetooth™ wireless technology icon in the taskbar**
Launches "Bluetooth Settings."
2. **Right-Click the Bluetooth(TM) Wireless Technology icon and Click on [Options]->[Other] Tab ->[Av Player] in [AV player section]**
The [Select AV Player] screen will appear.
3. **Select the appropriate item from the pull-down menu of positions where the receive command is to be displayed, and then click on the [OK] button.**

If the receive command appears but does not function properly, sometimes the problem may be rectified by changing the setting to "Do not display."

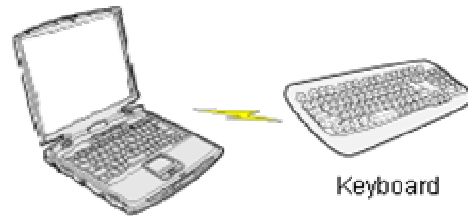
The commands supported by this application are shown below. Please refer to the headphone user guide for commands that are supported by the stereo headphones. Problems with operation may be encountered with certain versions of "Windows Media Player 9" and "InterVideo WinDVD."

Copyright protection function

A copyright protection function is supported according to the SCMS-T format as defined in the Bluetooth™ wireless technology specifications.

Using a wireless keyboard [HID]

This section describes how to connect a Bluetooth™ wireless technology-compatible keyboard to a PC.



Setting up the wireless keyboard

Procedure

1. **Right-click on the Bluetooth™ wireless technology icon in the task tray, and then click on [Add New Connection]**

Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window.

The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window will appear.

2. **Confirm that [Express Mode] has been selected, and then click on the [Next] button**

The [Add New Connection Wizard (Searching for devices)] window will appear. Once the program has finished searching for the devices, the [Add New Connection Wizard (Device Selection)] window will appear.

3. **Select the device name of the keyboard from [Device List], and then click on the [Next] button**

The [Add New Connection Wizard (Searching for Services)] window will appear.

4. **Use the wireless keyboard to enter the numbers that appear in [Bluetooth Passkey (PIN Code)], and then hit the [Enter] key**

Once the program has detected the services successfully, connection to the device and registration of settings information will be performed automatically.

The settings information will be registered, and an icon will appear in the [Bluetooth Settings] window.

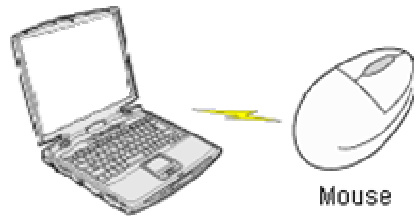


Note

- 1 Pressing any key on the wireless keyboard will automatically connect it to the PC thereafter. Please connect manually if automatic connection is unsuccessful.

Using a wireless mouse [HID]

This section describes how to connect a Bluetooth™ wireless technology-compatible mouse to a PC.



Setting up the wireless mouse

Procedure

1. Turn on the wireless mouse, and set it to be connectable

Please refer to the instruction manual for details on how to operate the mouse.

Note

If the security mode on your PC has been set to "Enable Link-Level Security," then any mouse not ordinarily requiring a passkey will require one. If your mouse's user guide does not contain any passkey-related information, please consult the outlet where you purchased your mouse or the relevant support center.

2. Right-click on the Bluetooth™ wireless technology icon in the task tray, and then click on [Add New Connection]

Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings], and then click on [New Connection] from the active [Bluetooth Settings] window.

The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] window will appear.

3. Confirm that [Express Mode] has been selected, and then click on the [Next] button

The [Add New Connection Wizard (Searching for devices)] window will appear. Once the program has finished searching for the devices, the [Add New Connection Wizard (Device Selection)] window will appear.

4. Select the device name of the mouse from [Device List], and then click on the [Next] button

The [Add New Connection Wizard (Searching for Services)] window will appear.

A message confirming a device connection will appear.

5. Click on the [OK] button

The settings information will have been registered, and an icon will appear in the [Bluetooth Settings] window.



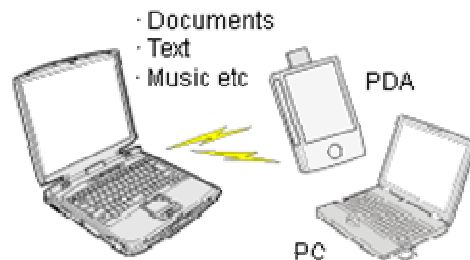
Note

Clicking on one of the mouse buttons or otherwise operating it will automatically connect it to the PC thereafter. Please connect [manually](#) if automatic connection is unsuccessful.

Exchanging files with a PC or PDA [FTP]

You can send and receive files other than business card data with a PC or PDA that has onboard Bluetooth™ wireless technology.

Use "File transfer" in the Bluetooth Information Exchanger to exchange files.



Note

- ! The same operations will be valid as long as the PC and PDA support the FTP profile.
- ! "File transfer" cannot be used to send or receive business card data. Please instead use "Object Push" to perform these activities.

Procedure

■ Sending files to a PC or PDA (using icons)

1. Turn on the PC or PDA
2. Open Bluetooth Information Exchanger

Note

Please refer to Contents of the Bluetooth™ Utility on how to open Bluetooth Information Exchanger

3. Double-click on the [File transfer] icon

A list of devices will appear in the [File transfer] window.

Note

If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [Bluetooth]→[Search Devices].

A device search will be performed.

You can also use "Image transfer" when sending individual image files.

4. Use the mouse to drag and drop the file you wish to send over the destination icon

Note

When using "File transfer", you can send individual files as well as entire folders.

5. Confirm that the file is being sent

The file will be sent to the PC.

Note

When sending files using "File transfer", a message requesting permission to receive the files may appear on the destination (receiving) device. The content of the message will vary with the software that supports the Bluetooth™ wireless technology function on the destination device, so please be sure to follow the instructions provided.

If you are using the Bluetooth™ Utility, a message will appear.

If the file has been sent successfully, a message will appear. Please click on the [OK] button.

A message will appear if the file transmission was unsuccessful.

Please click on the [OK] button to close the message, and repeat the procedure.

Note

Files that have been sent will be saved in a file transfer shared folder on the destination device. Additionally, with "File transfer", you can open the shared folder on the destination device using Explorer, specify a subfolder, and then send the file there. You can use the Settings on [Bluetooth Information Exchanger] tab in [Options] to change the location of the "Shared folder" on the hard drive.

■Sending files to a PC or PDA (by right-clicking the mouse)

1. Turn on the PC or PDA

Confirm that a connection has been enabled before proceeding to the next step.

2. Right-click on the file you wish to send, and then select its destination from [to Bluetooth]

Note

If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [to Bluetooth]→[Search other devices].

Once the devices have been detected, a window will appear. Please select the destination device, and then click on the [Send] button.

3. Confirm that the file is being sent

The file will be sent to the PC.

Note

When sending files using "File transfer," a message requesting permission to receive the files may appear on the destination (receiving) device. The content of the message will vary with the software installed on the destination device, so please be sure to follow the instructions provided.

If the file has been sent successfully, a message will appear. Please click on the [OK] button.

A message will appear if the file transmission was unsuccessful. Please click on the [OK] button to close the message, and then repeat the procedure.

Note

Files that have been sent will be saved in a file transfer shared folder on the destination device.

■Receiving files from a PC or PDA

Your PC is able to receive files that have been saved in the shared folder on the destination PC or PDA. Received files will be saved in the shared folder under "File transfer".

1. Turn on the PC or PDA

Confirm that a BluetoothTM wireless technology connection has been enabled before proceeding to the next step.

2. Open Bluetooth Information Exchanger

Note

Please refer to Contents of the BluetoothTM Utility on how to open Bluetooth Information Exchanger

3. Double-click on the [File transfer] icon

A list of devices will appear in the [File transfer] window.

4. Double-click on the destination icon

The file saved in the destination's shared folder will appear.

5. Right-click on the file you wish to receive, and then select "Receive file".

The file will be received from a PDA.

Note

With "File transfer", you can send individual files as well as entire folders.

Please right-click on the folder you wish to receive, and select "Receive folder". Subsequent operations should be performed in the same manner as when receiving individual files.

If the file has been received successfully, a message will appear. Please click on the [OK] button.

A message will appear if the file transmission was unsuccessful. Please click on the [OK] button to close the message, and repeat the procedure.

Note

The received file will be saved in the "Shared folder" under "File transfer" in the Bluetooth Information Exchanger

You can use the Settings on [\[Bluetooth Information Exchanger\]](#) tab in [Options] to specify the location of the "Shared folder" on the hard drive.

Sending images to a mobile telephone [BIP]

You can send image data to a Bluetooth™ wireless technology-compatible mobile telephone. Large images will be automatically reduced to fit on the telephone display screen.

Images are sent using "Image transfer" under Bluetooth Information Exchanger.



Note

- ! The mobile telephone must support the BIP profile.
- ! The following image file formats can be sent and received using "Image transfer":
 - ⦿ Bitmap (*.bmp)
 - ⦿ JPEG (*.jpg, *.jpeg)
 - ⦿ PNG (*.png)

Procedure

■ Sending images to a mobile telephone (using icons)

1. Turn on the PC or PDA

Confirm that a Bluetooth™ wireless technology connection has been enabled before proceeding.

2. Open Bluetooth Information Exchanger

Note

Please refer to Contents of the Bluetooth™ Utility on how to open Bluetooth Information Exchanger

3. Double-click on the [Image transfer] icon

A list of devices will appear in the [Image transfer] window.

Note

If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [Bluetooth]→[Search Devices].

A device search will be performed.

4. Drag and drop the file you wish to send over the destination icon

The image will be sent. If the image has been sent successfully, a message will appear. Please click on the [OK] button.

A message will appear if the image transmission was unsuccessful.

Please click on the [OK] button to close the message, and repeat the procedure.

■ Sending images to a mobile telephone (by right-clicking the mouse)

1. Turn on the mobile telephone

Confirm that a Bluetooth™ wireless technology connection has been enabled before proceeding.

2. Right-click on the file you wish to send, and then click on its destination from [to Bluetooth]

Note

If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [to Bluetooth]→[Search other devices].

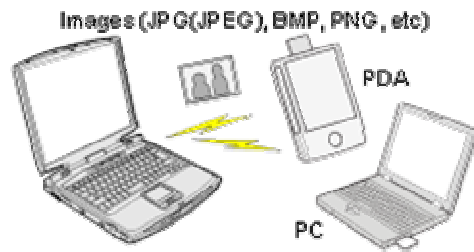
Once the devices have been detected, a window will appear. Please select the destination device, and then click on the [Send] button.

The image will be sent. If the image has been sent successfully, a message will appear. Please click on the [OK] button.

A message will appear if the image transmission was unsuccessful.
Please click on the [OK] button to close the message, and repeat the procedure.

Sending images to a PC or PDA [BIP]

You can send image data to a Bluetooth™ wireless technology-enabled PC or PDA. Images are sent using "Image transfer" under Bluetooth Information Exchanger.



Note

The following image file formats can be sent and received using "Image transfer":

- Bitmap (*.bmp)
- JPEG (*.jpg, *.jpeg)
- PNG (*.png)

Procedure

■ Sending images to a PC or PDA (using icons)

1. Turn on the PC or PDA

Confirm that a Bluetooth™ wireless technology connection has been enabled before proceeding.

2. Open Bluetooth Information Exchanger

Note

Please refer to Contents of the Bluetooth™ Utility on how to open Bluetooth Information Exchanger

3. Double-click on the [Image transfer] icon

A list of devices will appear in the [Image transfer] window.

Note

If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [Bluetooth]→[Search Devices]. A device search will be performed.

4. Drag and drop the file you wish to send over the destination icon

The image will be sent. If the image has been sent successfully, a message will appear. Please click on the [OK] button.

A message will appear if the image transmission was unsuccessful.

Please click on the [OK] button to close the message, and repeat the procedure.

Note

Images that have been sent will be saved in an image transfer folder on the destination device.

Images received using "Image transfer" in the Bluetooth Information Exchanger will be saved in the "Image Box" in "Image transfer".

You can use the Settings on [Bluetooth Information Exchanger] tab in [Options] to change the location of the "Image Box" folder on the hard drive.

■ Sending images to a PC or PDA (by right-clicking the mouse)

1. Turn on the PC or PDA

Confirm that a Bluetooth™ wireless technology connection has been enabled before proceeding

2. Right-click on the file you wish to send, and then click on its destination from [to Bluetooth]

Note

If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [to Bluetooth]→[Search other devices].

Once the devices have been detected, a window will appear. Please select the destination device, and then click on the [Send] button.

The image will be sent. If the image has been sent successfully, a message will appear. Please click on the [OK] button.

A message will appear if the image transmission was unsuccessful.

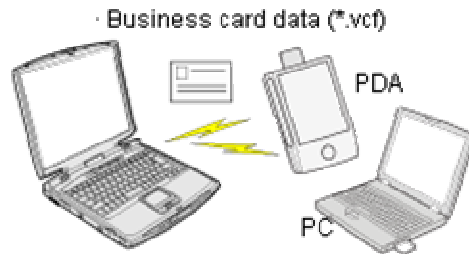
Please click on the [OK] button to close the message, and repeat the procedure.

Note

When you send images by right-clicking the mouse, the image data that has been sent will be saved in the image transfer shared folder on the destination device. This is also the case when you send images using icons.

Exchanging business card data with a PC or PDA [OPP]

You can exchange business card data with a Bluetooth™ wireless technology-enabled PC or PDA. Business card data are exchanged using "Object Push" under Bluetooth Information Exchanger.



Note

- | Data compliant with the "vCARD" standard are the only type of business card data able to be sent and received with "Object Push".
- | Business card data can be used by applications such as Microsoft Outlook.
- | Business card data can be created in vCARD format by Microsoft Outlook and other similar applications.
- | You can send business card data directly from Microsoft Outlook.
- | The OPP profile must be supported by the PC or PDA of the other party.

Procedure

■ Selecting a business card and sending it to a PC or PDA (using icons)

Select a business card you wish to send from among all the business card data you have already received through exchanges with your business or other contacts, and then send it to another party.

1. Turn on the PC or PDA

Confirm that a Bluetooth™ wireless technology connection has been enabled before proceeding.

2. Open Bluetooth Information Exchanger

Note

Please refer to Contents of the Bluetooth™ Utility on how to open Bluetooth Information Exchanger

3. Double-click on the [Object Push] icon

A list of devices will appear in the [Object Push] window.

Note

If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [Bluetooth]→[Search Devices].

A device search will be performed.

4. Use the mouse to drag and drop the business card you wish to send over the destination icon

The business card will be sent.

Note

When you try to send a business card, a message requesting permission to receive the card may appear on the device belonging to the other party (i.e., on the receiving end). The content of the message will vary with the software installed on the destination device, so please be sure to follow the instructions provided.

If the business card has been sent successfully, a message will appear. Please click on the [OK] button.

A message will appear if the business card transmission was unsuccessful.

Please click on the [OK] button to close the message, and repeat the procedure.

Memo

Data that have been sent will be saved in a folder for exchanged business cards on the destination device.

You can configure an associated application (Microsoft Outlook etc) to start automatically when you have received a business card, allowing you to view the card details.

You can use the Settings on [Bluetooth Information Exchanger] tab in [Options] to configure whether or not you would like such an application to start automatically.

■Selecting a business card and sending it to a PC or PDA (by right-clicking the mouse)

1. Turn on the PC or PDA

Confirm that a BluetoothTM wireless technology connection has been enabled before proceeding.

2. Right-click on the business card you wish to send, and then click on its destination from [to Bluetooth]

Note

If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [to Bluetooth]→[Search other devices].

Once the devices have been detected, a window will appear. Please select the destination device, and then click on the [Send] button.

The business card will be sent.

Note

When you try to send a business card, a message requesting permission to receive the files may appear on the device belonging to the other party (i.e., on the receiving end). The content of the message will vary with the software installed on the destination device, so please be sure to follow the instructions provided.

If you are using the BluetoothTM Utility, a message will appear.

If the business card has been sent successfully, a message will appear. Please click on the [OK] button.

A message will appear if the business card transmission was unsuccessful.

Please click on the [OK] button to close the message, and repeat the procedure.

Note

Data that have been sent will be saved in a folder for exchanged business cards on the destination device.

■Sending your personal business card

You can prepare a business card bearing your name and other details such as your company and telephone numbers, and then send it to another party.

Note

! You can use the Settings on [Bluetooth Information Exchanger] tab in [Options] beforehand to configure which data to use for your own business card.

! You can only have one business card registered as your own that is able to be sent.

1. Turn on the PC or PDA

Confirm that a BluetoothTM wireless technology connection has been enabled before proceeding

2. Open Bluetooth Information Exchanger

Note

Please refer to Contents of the BluetoothTM Utility on how to open Bluetooth Information Exchanger

3. Double-click on the [Object Push] icon

A list of devices will appear in the [Object Push] window.

Note

If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [Bluetooth]→[Search Devices]. A device search will be performed.

4. Right-click on the destination icon, and then click on [Send business card To]

The business card will be sent.

Note

When you try to send a business card, a message requesting permission to receive the files may appear on the device belonging to the other party (i.e., on the receiving end). The content of the message will vary with the software installed on the destination device, so please be sure to follow the instructions provided.

If you are using the BluetoothTM Utility, a message will appear.

Business cards that have been sent will be saved in the Inbox of the destination party.

If your business card has been sent successfully, a message will appear. Please click on the [OK] button.

A message will appear if the business card transmission was unsuccessful. Please click on the [OK] button to close the message, and repeat the procedure.

Note

Data that has been sent will be saved in a folder for exchanged business cards on the destination device.

■ **Acquiring a business card from another party**

You can use your PC to acquire a business card from a party containing their details.

1. Turn on the PC or PDA

Confirm that a Bluetooth™ wireless technology connection has been enabled before proceeding

2. Open Bluetooth Information Exchanger

Note

Please refer to Contents of the Bluetooth™ Utility on how to open Bluetooth Information Exchanger

3. Double-click on the [Object Push] icon

A list of devices will appear in the [Object Push] window.

Note

If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [Bluetooth]→[Search Devices].

A device search will be performed.

4. Right-click on the icon of the party whose card you wish to acquire, and then click on [Receive business card]

The business card will be received.

Note

When you try to acquire a business card, a message requesting permission to send the files may appear on the device belonging to the other party (i.e., on the sending end). The content of the message will vary with the software installed on the destination device, so please be sure to follow the instructions provided.

If you are using the Bluetooth™ Utility, a message will appear.

If the business card has been received successfully, a message will appear. Please click on the [OK] button.

A message will appear if the business card was unsuccessfully received.
Please click on the [OK] button to close the message, and repeat the procedure.

Note

Business card data that have been received will be saved in the Inbox under "Object Push".
You can use the Settings on [\[Bluetooth Information Exchanger\]](#) tab in [Options] to change the location of the Inbox on the hard drive.

■ **Exchanging business cards**

Simultaneously exchange your business card with one belonging to another party.

1. Turn on the PC or PDA

Confirm that a Bluetooth™ wireless technology connection has been enabled before proceeding.

2. Open Bluetooth Information Exchanger

Note

Please refer to Contents of the Bluetooth™ Utility on how to open Bluetooth Information Exchanger

3. Double-click on the [Object Push] icon

A list of devices will appear in the [Object Push] window.

Note

If the desired device does not appear in the list, please confirm that the device has been turned on, and then select [Bluetooth]→[Search Devices].

A device search will be performed.

4. Right-click on the icon of the party with whom you wish to exchange business cards, and then click on [Object Push]

The business card from the party who executed the "Exchange business cards" command will be sent first.

Note

When you try to send a business card, a message requesting permission to receive the files may appear on the device belonging to the other party (i.e., on the receiving end). The content of the message will vary with the software installed on the destination device, so please be sure to follow the instructions provided.

If you are using the Bluetooth™ Utility, a message will appear.

A message of confirmation will appear if the card has been successfully sent.

Note

Business cards that have been sent will be saved in the Inbox of the destination party.

Once your business card has finished being sent, the program will start receiving the business card belonging to the other party.

Note

When a business card is to be received, a message may appear on the device belonging to the other party.

Please click on the [Yes] button if you give permission for the business card to be sent.

A message of confirmation will appear if the card has been successfully received.

Note

Business cards that have been received will be saved in the "Inbox" under "Object Push".

You can use the Settings on [\[Bluetooth Information Exchanger\]](#) tab in [Options] to change the location of the Inbox on the hard drive.

Using a BluetoothTM wireless technology-compatible camera [BIP]

By connecting a BluetoothTM wireless technology-compatible digital camera to your PC, you will be able to operate the camera shutter from the PC and transmit captured images to it as well.



Connecting the camera

Use the "Remote Camera" tool in the BluetoothTM Utility to connect the camera to your PC.

Procedure

1. Click on [Start]→[All Programs]→[Bluetooth]→[Remote Camera]

Note

In Windows 2000, click on [Start]→[Programs]→[Bluetooth]→[Remote Camera].

The [Remote Camera] window will appear.

2. Turn on the camera, and set it to be connectable via BluetoothTM wireless technology

Note

Different cameras are operated in different ways, depending on the manufacturer and model used. Please refer to the instruction manual for further details on how to operate your camera.

3. Click on the [Camera Search...] button

The camera will be detected and its icon displayed.

4. Right-click on the camera icon, and select [Connect]

The camera will be connected, and images from the camera will appear on-screen.



Taking pictures

By placing the cursor over the on-screen image, the camera's operating window will appear. You can operate the camera from this window.


Procedure

■Taking a single picture

1. Click on the  button in the operating window.

A single image will be captured and sent to the PC.

■Taking several consecutive frames

1. Click on the  button in the operating window

A succession of images will be captured and sent to the PC.

Note

The remote camera shutter cannot be operated while the camera is connected to the PC.

The number of consecutive pictures taken can be set to anywhere between 2 and 16

1. In the [Remote Camera] window, click on [Bluetooth]→[Properties]→[Consecutive Image Settings]
The [Change number of consecutive images] dialog box will appear
2. Click on the [<][>] buttons to select the number of consecutive images to be captured

Important

Images are not only sent to the PC, but are stored in the camera's on-board memory as well.

Please be aware of the remaining memory capacity when you are taking a large number of pictures.

Large file sizes are common for high-resolution images, and may take some time to be transferred to the PC.

Viewing images saves on your PC

A "Remote Camera" folder will be created in the "Bluetooth" folder under "My Documents" during initial set-up. A folder bearing the same name as the camera will be created in it, and images will be saved in this folder.

Click the [Explorer] button in the [Remote Camera] window to display the folder where the images have been saved.

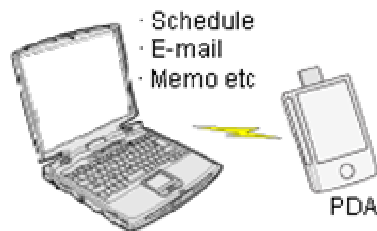
Note

- ! This window is an example showing pictures when [Filmstrip] has been selected from the [View] menu in Explorer.

Synchronizing information using ActiveSync [SPP]

This section describes how to synchronize information on your PDA (calendars, contacts, inboxes etc) with your PC using Microsoft ActiveSync.

When you connect via Bluetooth™ wireless technology instead of with a standard cable, you will always be able to synchronize your data without the hassle of having to connect the cable.



Important

- ! Please use ActiveSync v.3.7 or higher. Also please establish a partnership between the devices using a USB or infrared link before you connect via Bluetooth™ wireless technology.
- ! Please refer to the ActiveSync Help or other manuals for information on how to use the application.
- ! Microsoft Outlook 2002 or another schedule management tool must also be installed on the PC.

Connecting using ActiveSync

Both the PC and PDA must be set up in order for a connection to be established.

■Preparing the PC

Procedure

1. On the PC, click on [Start]→[All Programs]→[Microsoft ActiveSync]

The initial ActiveSync set-up window will appear.

It is assumed in the explanation below that no ActiveSync connections have been established with other devices.

2. Click [File]→[Connection Settings]

The [Connection Settings] window will appear.

3. Place a check next to [Allow serial cable or infrared connection to this COM port], and then select "COM7".

Note

In the standard set-up, the port is configured to "COM7" (refer to Steps (3) and (4) under "Preparing the PDA" below). When using a different port, please also change the port number selected in this window.

■Preparing the PDA

Procedure

1. Tap on the Bluetooth™ wireless technology icon in the bottom right of the screen

Important

The connection procedure may be different depending on the manufacturer or model of PDA you use. Please refer to the product instruction manuals for further details.

The [Bluetooth Settings] window will open.

The message "Connection not registered" will appear if no Bluetooth™ wireless technology device has been registered.

Please tap on [OK] to close the message.

2. Double click on [Tools]→[Search for peripheral components]

The application searches for nearby devices.

3. Tap and hold on the destination PC icon, and then select [Update Services]

A search for services will be carried out, and then a list of service names and their connection status will appear as list in the lower window.

4. Tap and hold on "COM7" from the list of service names, and then select "Register ActiveSync".

5. Tap [OK] in the confirmation message window

An ActiveSync connection will be initiated.

Establishing a partnership between ActiveSync and a PDA

Once a connection has been successfully established with a PDA, the procedure for establishing a partnership with the PDA will be started by the ActiveSync application on the PC. Performing this set-up procedure will enable data to be synchronized between your PC and PDA.

Procedure

1. In the [New Partnership (Set Up a Partnership)] window, select "Standard partnership", and then click on the [Next] button

The [New Partnership (Specify Data Synchronization Method)] window will appear.

2. Select "Synchronize with this PC", and then click on the [Next] button

The [New Partnership (Select Synchronization Settings)] window will appear.

3. Select the type of information to be synchronized between your PC and PDA, and then click on the [Next] button

The [New Partnership (Completing Setup)] window will appear.

4. Click on the [Finish] button

When you click on the [Finish] button, ActiveSync will begin to synchronize your information.

[Confirming changes]



(Synchronization process)



[Synchronization complete]

While the ActiveSync connection is active, synchronization will be performed whenever information is changed on either the PC or the PDA.

Once a partnership has been established, every time you start your PC (and PDA) thereafter, a Bluetooth™ wireless technology connection will be opened and ActiveSync will synchronize your information.

Finishing an ActiveSync connection

Follow the procedure below on your PDA if you want to end an ActiveSync connection manually.

Procedure

1. Tap and hold on "COM7" in the [Bluetooth Settings] window, and select [ActiveSync Release]

Cancelling a partnership

Follow the procedure below from the ActiveSync window on the PC if you want to cancel the partnership between your PC and PDA.

Procedure

1. Click on [File]→"Delete partnership"

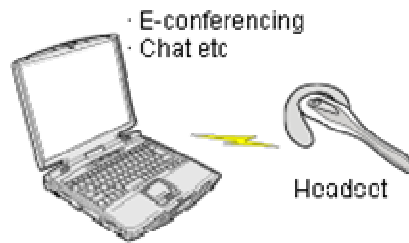
Click on the [Yes] button when the confirmation message appears.

Note

If you wish to create another ActiveSync connection, you will have to repeat the above procedure to re-establish a partnership.

Using a headset to communicate [HSP]

This section provides a description of how to use a BluetoothTM wireless technology-compatible wireless headset to communicate (chat) using Microsoft NetMeeting or other software.



Registering the headset Procedure

Procedure

1. **Right-click on the BluetoothTM wireless technology icon in the tasktray, then click on [Add New Connection Wizard]**

Note

Alternatively, you can click on [Start]>[All Programs]>[Bluetooth]>[Bluetooth Settings], then click on [New Connection] in the [Bluetooth Settings] screen that has opened.

The [Add New Connection Wizard (Welcome to the Add New Connection Wizard)] screen will appear.

2. **Turn the headset power on**

Once you have turned on the headset, set the mode to enable a connection. Important
The procedure for operating the headset may differ depending on the manufacturer and model.
Please consult your user guide for a detailed description of how to operate the unit.

3. **Confirm that [Express Mode] has been selected, then click on the [Next] button**

The [Add New Connection Wizard (Searching for Devices)] screen will appear.

Once the device search has been completed, the [Add New Connection Wizard (Select a Device)] screen will appear.

4. **Select the name of the headset device from the list, then click on the [Next] button**

5. **Answering with the headset**

If the service has been properly detected, a screen will appear indicating that the headset is being called, and a tone will accordingly sound in the headset.

Please press the headset switch.

Important

The procedure for operating the headset may differ depending on the manufacturer and model.
Please consult your user guide for a detailed description of how to operate the unit.

The [Add New Connection Wizard (Configuring (Connecting to Voice Circuit))] screen will appear, and device configuration will be performed.

Note

If you are connecting to the headset for the first time, or if another audio device has not yet been registered, the following [Found New Hardware Wizard] screen will appear, from which you can proceed to install the driver.

If another audio device has already been registered (i.e., the driver has been installed), you can proceed to Step 9 without having to install the driver.

6. **Click on the [Next] button**

The [Install Hardware] screen will appear.

7. Click on the [Continue Anyway] button

The following screen will appear automatically. You may disregard it and click on the [Continue Anyway] button.

The [Add New Connection Wizard (Completing the Found New Hardware Wizard)] screen, which is the final screen of the installation wizard, will appear.

8. Click on the [Finish] button

Once driver installation is complete, click on the [Finish] button.

The configuration information will be registered, and an icon will be displayed in the [Bluetooth Settings] screen.



Making a connection to the headset

You can make a connection to the headset from an icon that has been registered in [Bluetooth Settings].

Important

- Before making a connection to the headset, please check that you have turned on the headset's power, and that it has been enabled for a BluetoothTM wireless technology connection. Please ensure that the following audio-related applications have been closed before you connect the headset to your PC.

Windows Media Player, BeatJam, InterVideo WinDVD and other music/audio playback software.
Windows Messenger and other e-conferencing software.

If you wish to use these applications, please terminate the headset connection before you launch them.

Procedure

1. Right-click on the headset icon, then click on [Connect].

2. Answer with the headset

A screen will appear indicating that the headset is being called, and a tone will accordingly sound in the headset.

Please press the headset switch.

If the connection has been properly established, the icon's appearance will change to indicate a connected state.



You may now launch conferencing and voice-recognition software and use the headset.

Disconnecting from the headset

Please follow the steps below to disconnect from the headset.

Procedure

1. Right-click on the headset icon in the [Bluetooth Settings] screen, then click on [Disconnect].

A message will appear, requesting confirmation that you wish to disconnect. Click on the [Yes] button.

The icon on the [Bluetooth Settings] screen will appear as shown below, indicating that the device has been disconnected.



Making a device undiscoverable to other users

For security purposes, you may not wish your device to be detected by other users. The procedure for accomplishing this is provided below.

Procedure

1. **Right-click on the Bluetooth™ wireless technology icon in the task tray, click on [Options] and select [security] tab.**

The [Bluetooth Security Level] will appear.

2. **Select [Custom Level ...] in [Bluetooth Security Level] under [security] tab.**

3. **Check the [Not Discoverable] in Mode on [Security Settings]**

Your device will now be undetectable by other users, even when they search for other devices.

Note

- ! Other devices are still able to establish connections with your device even if you have enabled the Non-discoverable mode.

Please enable "Connection denied" if you wish to reject connections from other devices.

Encrypting the content of your transmissions

Since Bluetooth™ wireless technology is conducted wirelessly, there is always the possibility that a third party may be able to intercept your transmissions.

You can use encryption to render the content indecipherable to anyone who manages to intercept it.

Important

- † Encrypting your transmissions will still not guarantee complete security. Accordingly, please be aware that transmitting data is conducted with an element of risk for the user.

Procedure

- 1. Right-click on the Bluetooth™ wireless technology icon in the task tray, click on [Option] and select [security] tab.**
The [Bluetooth Security Level] will appear.
- 2. Select [Custom Level ...] in [Bluetooth Security Level] under [security] tab.**
- 3. Check the Link level enforced security [Authentication and encryption] in [Link Level Enforced Security] on [Security Settings]**
Your device will now be encryptable by other users, even when they connect for other devices.

Note

Once you have configured the security mode, a window will appear when you first make a connection to another device, prompting you to enter a Bluetooth passkey (PIN code).

Please click on the [OK] button after you have entered the passkey.

The window in which you enter the passkey will not appear once you have connected more than two times to the device.

Changing the default connection

The "default connection" refers to the dial-up connection configured for use whenever a connection is made to the Internet.

If several connections have been registered, you can change the default connection by following the procedure below.

Procedure

1. Start Internet Explorer

2. Click on [Tools]→[Internet Options...]

The [Internet Options] window will appear.

3. Click on the [Connections] tab

Change the settings so that "London A (as a sample)" will always be dialed when you connect to the Internet.

4. Select "Always dial my default connection"

5. Click on "London A", and then click on the [Set Default] button

"London A" has been changed to the default connection.

Note

- | Alternatively, if you wish to connect to the Internet from a LAN in a company or other environment where a LAN can be accessed, select "Never dial a connection" if you have a dial-up configuration, but do not want dial-up to occur automatically.
- | When connecting to the Internet via a LAN, you must enter the appropriate LAN settings under [LAN Settings...].

Sending business card data from Outlook

This section describes how to send business card data wirelessly using Microsoft Outlook

Note

- 1 The explanation below relates to an example in which Microsoft Outlook 2002 or higher has been used to perform the procedure. Subtle differences may arise when using other versions of the software.

Sending business card data

You can send business card data directly from the "Contacts" window in Outlook.

Procedure

1. Start Microsoft Outlook, and open the "Contacts" window

2. Double-click on the contact whose details you wish to send as a business card

The details of the contact you selected will appear.

3. Click on the [to Bluetooth] from the toolbar

The [Device List] window will appear.

Note

If the [to Bluetooth] button does not appear on the toolbar, please refer to Installing business card-sending functionality in Outlook as an Add-in" below and change the settings accordingly.

4. Select the destination for the business card data, and then click on the [Send] button

Note

If you cannot find the destination device in the list, please click on the [Searching for devices] button to discover it.

The business card will be sent.

Note

If the transmission was unsuccessful, please attempt to send the data once more after having confirmed the operating conditions (power status, security settings, etc) of the destination device.

■Installing business card-sending functionality in Outlook as an Add-in

You can install one of the functions of the BluetoothTM Utility in Outlook as an "Add-in", which will enable you to send business cards from the Outlook toolbar.

Procedure

1. Click on [Tools]-[Options...] in Outlook

The [Options] dialog box will appear.

2. Select the [Other] tab, and then click on the [Advanced Options...] button in the "General" field

The [Advanced Options] dialog box will appear

3. Click on the [COM Add-Ins...] button

The [COM Add-Ins] dialog box will appear.

4. Click on the [Add...] button

The [Add Add-In] dialog box will appear.

5. Select "TosBTAddin.dll", and then click on the [OK] button

Note

"TosBTAddin.dll" can be found on the hard drive at the address below. C:\Program Files\Toshiba\Bluetooth Toshiba Stack

6. Confirm that "Send to Bluetooth" has been added to the list and that a check appears next to it, and then click on the [OK] button

This will complete the Add-in process.

Manually creating a virtual Bluetooth COM port

In order for a PC to connect to and communicate with a BluetoothTM wireless technology device, the BluetoothTM Utility will create a gateway for data to be exchanged between the respective devices. This gateway is known as a "port" (or "virtual COM port").

Since one virtual COM port will be allocated to each device, trouble-free communication will still be possible even if several devices are being used.

When you use the BluetoothTM Utility, a virtual COM port will be automatically created on set-up; however, virtual COM ports can be created manually if so needed.

Note

! Bluetooth Manager must be active in order for you to be able to use Bluetooth Local COM.

Clients and servers

When BluetoothTM wireless technology communications are performed, there will always be a "client/server" relationship between the various devices. A "client" is a device that sends certain requests to another device, while a "server" is a device that provides a service on receipt of such requests from another device.

For example, when a PC issues a print command to a wireless printer, the PC functions as the client, while the printer functions as the server.

When a PDA or other device attempts to receive files located on a PC by means of file transfer protocol, the PC functions as the server, while the PDA functions as the client.

Virtual Bluetooth COM ports can be created both for clients and servers.

! Bluetooth virtual COM port for a client

Virtual COM port used when your device is the client, and requests are sent to another device.

! Bluetooth virtual COM port for a server

Virtual COM port used when your device is the server, and requests are received from another device.

Creating a virtual COM port

Bluetooth virtual COM ports are created according to the procedure below.

Procedure

1. Click on the [Printers and Other Hardware] icon in the Control Panel

The [Printers and Other Hardware] window appears.

2. Double-click on the [Bluetooth Local COM] icon

The main Bluetooth Local COM window will appear.

Note

Even when the Control Panel appears in Classic view, please simply click on the [Bluetooth Local COM] icon.

No such distinction between viewing formats exists in Windows 2000.

3. Click on the [Add...] button

The [Bluetooth Local COM Wizard] window, from where you can create a virtual COM port, will appear.

Start from this window when creating Bluetooth virtual COM ports for either servers or clients.

Deleting a virtual COM port

Please follow the procedure below to delete a virtual COM port when it is no longer needed.

Note

! You can only delete virtual COM ports created by the Bluetooth Local COM utility.

1. Select the port you wish to delete from the [Bluetooth Local COM] window, and then click on the [Delete] button

A message will appear asking you to confirm that you wish to delete the port.

2. Click on the [Yes] button

The port will be deleted.

3. Click on the [OK] button

Optional Properties

This section describes the settings categories for each of the tabs in the Optional Properties window.

Note

The contents in the following description fields are explanatory notes, not same as messages on screen.

[General] tab

| Category | Description | |
|-----------------------|---|--|
| Device name | Shows the name of your device. (Can be changed) | |
| Device address | Shows the address of your device. (Cannot be changed) | |
| Device Type | Sets to display the model of your device as desktop or laptop. (Can be changed) | |
| Detail | Shows the detailed information of your device. (Cannot be changed) | |
| Tray icon | Allows you to select two types of icons for Bluetooth Manager. When “Hide” is selected, the icon will not be displayed. Cancel the “Hide” setting when you are required to check the connection status using the icon. (Can be changed) | |
| Bluetooth Radio Power | Shows the Bluetooth power status. The power can be controlled on the case that the embedded Bluetooth module is used. | |
| Service to enable | Bluetooth Information Exchanger Service | Ticking the box enables a (server) function that allows files, images and business cards to be transferred from a remote device using Bluetooth Information Exchanger. |
| | PAN Group Networking Service | Ticking the box enables a (server) function that allows networking to be performed from a remote device using the PAN Networking Service. |
| | Bluetooth COM Port Service | Ticking the box enables a (server) function that allows COM Service to be performed from a remote location using the Serial Port Service. |
| | AV Remote Control Service | Ticking the box enables a (server) function that allows remote control to be performed from a remote device using the AV Remote Control Service. |

Note

The default device name is the name of your computer. The device address is set for every module.

Please select the model type that you are using for the Model to use. It may be used to differentiate destination devices (for example, as a device icon display).

[Security] tab

Sets the security settings in Slider. High, Medium, Standard, Low and Customize (individual settings possible) can be set for the security level. The authentication information (link key) can also be deleted

| Bluetooth™ Wireless Technology Security Level | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------------------|--|------------------|--|-------------------|--|---------------------------|--|---|--|--|--|---|--|---|--|---|--|--|--|------------------------|--|--|--|---|--|---|--|--------------------------------------|--|---|--|---|--|---|--|---|--|---|--|--------------------------------------|--|---|--|---|--|----------------------------------|--|---|--|---|--|--|--|---|--|---|--|--------------------------------|--|---|--|---|--|---------------------------------|--|---|--|---|--|--|--|---|--|-----------------------------------|--|---|--|
| Category | Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Slider | Sets security level in Slider. High, Medium, Standard, Low and Customize (individual settings possible) can be set for the security level. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| File Transfer Password | Allows you to set a password for file transfer when using file transfer protocol (FTP). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Level customization | <p>Sets individual settings for customized security levels. Individual settings are set here when combinations other than the High, Medium, Standard and Low security levels are used.</p> <table> <tr> <th colspan="2">Settings for each mode</th></tr> <tr> <td>Not Discoverable</td><td></td></tr> <tr> <td>Connection denied</td><td></td></tr> <tr> <td>New Authentication denied</td><td></td></tr> <tr> <td>Link level enforced security[Authentication and encryption]</td><td></td></tr> <tr> <th colspan="2">Bluetooth Information Exchanger security level settings (Displays confirmation message when responding to incoming files)</th></tr> <tr> <td>Apply a password on file transfer (FTP)</td><td></td></tr> <tr> <td>Display a confirmation message on receiving through File Transfer [FTP]</td><td></td></tr> <tr> <td>Display a confirmation message on receiving through Object Push [OPP]</td><td></td></tr> <tr> <td>Display a confirmation message on receiving through Imaging Transfer [BIP]</td><td></td></tr> </table> <p>Note You can also set the directory to save received files in the confirmation message. The changed directory will be enabled.</p> <table> <tr> <th colspan="2">Service level security</th></tr> <tr> <th colspan="2">Security Setting of File Transfer[FTP]</th></tr> <tr> <td>Performs authentication and encryption (Server)</td><td></td></tr> <tr> <td>Performs authentication and encryption (Client)</td><td></td></tr> <tr> <th colspan="2">Security Setting of Object Push[OPP]</th></tr> <tr> <td>Performs authentication and encryption (Server)</td><td></td></tr> <tr> <td>Performs authentication and encryption (Client)</td><td></td></tr> <tr> <th colspan="2">Security Setting of Imaging Transfer[BIP]</th></tr> <tr> <td>Performs authentication and encryption (Server)</td><td></td></tr> <tr> <td>Performs authentication and encryption (Client)</td><td></td></tr> <tr> <th colspan="2">Security Setting of Serial Port[SPP]</th></tr> <tr> <td>Performs authentication and encryption (Server)</td><td></td></tr> <tr> <td>Performs authentication and encryption (Client)</td><td></td></tr> <tr> <th colspan="2">Security Setting of Headset[HSP]</th></tr> <tr> <td>Performs authentication and encryption (Server)</td><td></td></tr> <tr> <td>Performs authentication and encryption (Client)</td><td></td></tr> <tr> <th colspan="2">Security Setting of Personal Area Network[PAN]</th></tr> <tr> <td>Performs authentication and encryption (Server)</td><td></td></tr> <tr> <td>Performs authentication and encryption (Client)</td><td></td></tr> <tr> <th colspan="2">Security Setting of Mouse[HID]</th></tr> <tr> <td>Performs authentication and encryption (Server)</td><td></td></tr> <tr> <td>Performs authentication and encryption (Client)</td><td></td></tr> <tr> <th colspan="2">Security Setting of Audio[A2DP]</th></tr> <tr> <td>Performs authentication and encryption (Server)</td><td></td></tr> <tr> <td>Performs authentication and encryption (Client)</td><td></td></tr> <tr> <th colspan="2">Security Setting of Audio Remote Control (AVRCP)</th></tr> <tr> <td>Performs authentication and encryption (Server)</td><td></td></tr> <tr> <th colspan="2">Security Setting of Printer[HCPR]</th></tr> <tr> <td>Performs authentication and encryption (Client)</td><td></td></tr> </table> <p>Note Data encryption can be applied for each category in the service level security.</p> | Settings for each mode | | Not Discoverable | | Connection denied | | New Authentication denied | | Link level enforced security[Authentication and encryption] | | Bluetooth Information Exchanger security level settings (Displays confirmation message when responding to incoming files) | | Apply a password on file transfer (FTP) | | Display a confirmation message on receiving through File Transfer [FTP] | | Display a confirmation message on receiving through Object Push [OPP] | | Display a confirmation message on receiving through Imaging Transfer [BIP] | | Service level security | | Security Setting of File Transfer[FTP] | | Performs authentication and encryption (Server) | | Performs authentication and encryption (Client) | | Security Setting of Object Push[OPP] | | Performs authentication and encryption (Server) | | Performs authentication and encryption (Client) | | Security Setting of Imaging Transfer[BIP] | | Performs authentication and encryption (Server) | | Performs authentication and encryption (Client) | | Security Setting of Serial Port[SPP] | | Performs authentication and encryption (Server) | | Performs authentication and encryption (Client) | | Security Setting of Headset[HSP] | | Performs authentication and encryption (Server) | | Performs authentication and encryption (Client) | | Security Setting of Personal Area Network[PAN] | | Performs authentication and encryption (Server) | | Performs authentication and encryption (Client) | | Security Setting of Mouse[HID] | | Performs authentication and encryption (Server) | | Performs authentication and encryption (Client) | | Security Setting of Audio[A2DP] | | Performs authentication and encryption (Server) | | Performs authentication and encryption (Client) | | Security Setting of Audio Remote Control (AVRCP) | | Performs authentication and encryption (Server) | | Security Setting of Printer[HCPR] | | Performs authentication and encryption (Client) | |
| Settings for each mode | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Not Discoverable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connection denied | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Authentication denied | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Link level enforced security[Authentication and encryption] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth Information Exchanger security level settings (Displays confirmation message when responding to incoming files) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apply a password on file transfer (FTP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display a confirmation message on receiving through File Transfer [FTP] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display a confirmation message on receiving through Object Push [OPP] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display a confirmation message on receiving through Imaging Transfer [BIP] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Service level security | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Security Setting of File Transfer[FTP] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Server) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Client) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Security Setting of Object Push[OPP] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Server) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Client) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Security Setting of Imaging Transfer[BIP] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Server) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Client) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Security Setting of Serial Port[SPP] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Server) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Client) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Security Setting of Headset[HSP] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Server) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Client) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Security Setting of Personal Area Network[PAN] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Server) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Client) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Security Setting of Mouse[HID] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Server) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Client) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Security Setting of Audio[A2DP] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Server) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Client) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Security Setting of Audio Remote Control (AVRCP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Server) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Security Setting of Printer[HCPR] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Performs authentication and encryption (Client) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

[Bluetooth Information Exchanger] tab

Displays or changes the settings used in Bluetooth Information Exchanger.

| Category | Description |
|--|---|
| Bluetooth Information Exchanger location | Shows the position of Bluetooth Information Exchanger's Icon. When the position is My Network, a shortcut can be placed as an option on the desktop. |
| Recent Bluetooth device List | Right-clicking the file or folder clears the Sent Device Log that is displayed during file transfer. |
| Settings | Displays or changes the advanced settings used in Bluetooth Information Exchanger. -[File transfer] tab -[Object push] tab -[Image transfer] tab -[Associate] tab -[Preferred profile] tab -[Display filtering] tab |

[Other] tab

Performs settings for COM Auto Connect, AV player selection and copyright protection.

| COM Auto Connect settings | | |
|--|--|--|
| Category | Description | |
| Settings | Displays the port name and the related connection name. You can select the COM port to be set automatically. | |
| AV player selection | | |
| Category | Description | |
| Settings (Select AV Player) | Category | Description |
| | Music file playback | Select the program to be used in music playback.. |
| | CD audio playback | Select the program to be used in CD audio. |
| | DVD playback | Select the program to be used in DVD playback. |
| | CD/DVD drive | Drive device name to be used in CD/DVD |
| | Check Box | Music file playback is prioritised, regardless of media in drive |
| Settings (Display setting of receiving command) | Category | Description |
| | Display position | You can set the location to display commands for playback or pause on the desktop. |
| Return to default | Return all settings to the default | |
| AV profile Copyright Protection Settings | | |
| Description | | |
| SCMS-T format is supported in AV profile as Copyright Protection according to the message in this field. | | |

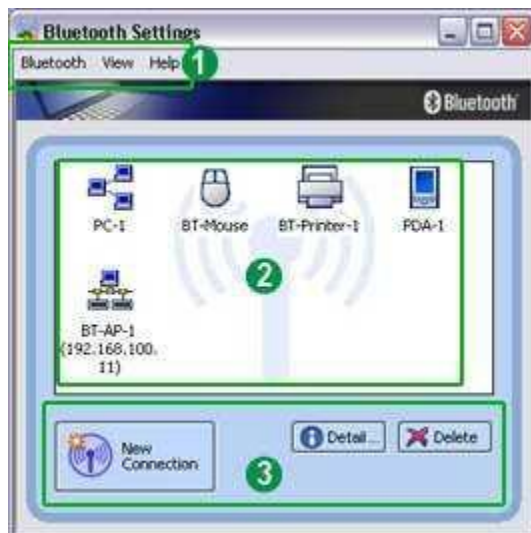
[Diagnostics] tab

There are some diagnostic functions. Selects the appropriate one as the need arises. These are maintenance purpose only.

Bluetooth Settings

This section provides detailed information on the [Bluetooth Settings] window.

Main window



Menu

■[Bluetooth] menu

| Category | Description |
|----------------------------|--|
| Add New Connection | Opens the [Add New Connection Wizard] window, and then searches for new devices. |
| Connect | Connects to selected device. |
| Disconnect | Disconnects from selected device. |
| Details | Displays detailed information about selected device. |
| Delete | Deletes selected device. |
| Create shortcut on Desktop | Creates a shortcut icon for the selected device on the Desktop. |
| Rename | Changes the name of the device you have selected. |
| Change Icon | Changes the icon of the device you have selected. |
| Options | Opens the [Options] Sheet and you can set the optional properties. |
| Exit | Closes the [Bluetooth Settings] window. |

■[View] menu

| Category | Description |
|-------------|--|
| Large icons | Changes the way icons are displayed on a device. |
| Small icons | |
| List | |
| Details | |

■[Help] menu

| Category | Description |
|----------|--|
| Help | Opens the Bluetooth TM Utility User Guide. |
| About | Displays the "Bluetooth Settings version information". |

Device List

Displays a list of devices that have been registered in [Bluetooth Settings].

Function buttons

| Category | Description |
|----------------|---|
| New Connection | Opens [Add New Connection Wizard] window. |
| Detail... | Shows details of selected device. |
| Delete | Deletes selected device. |

One-touch connection to Bluetooth™ wireless technology devices

Creating a Shortcut

If you have created a shortcut icon on the Desktop, you can easily establish a connection to a device that has been registered using Bluetooth Settings without having to open the [Bluetooth Settings] window.

Procedure

1. **Right-click on Bluetooth™ wireless technology icon in task tray and click on [Bluetooth Settings]**

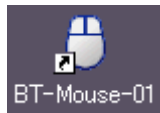
Note

Alternatively, you can click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings].

The [Bluetooth Settings] screen will appear, from where you can create a Shortcut entitled "Bluetooth Mouse."

2. **Right-click on the mouse registration icon, and then click on [Create Shortcut on Desktop]**

A shortcut icon of the mouse will appear on the Desktop.



■ Establishing a connection from the Shortcut

1. **Double-click on the mouse registration icon from the Desktop**

The [Bluetooth Settings] window will open.

2. **Turn on the mouse, set it to connectable mode, and then click on the [OK] button in the [Bluetooth Settings] window.**

The mouse will be connected.



Manually connecting to a Bluetooth™ wireless technology device

After a keyboard or mouse (HID profile), printer (HCRP or SPP profiles), or other device has been set up for the first time, subsequent connections will be automatically restored whenever you operate the device, print out a document from the PC, or perform another similar activity.

Should the connection not have been properly restored, please establish a manual connection to the device using the procedure below.

Procedure

1. Right-click on Bluetooth™ wireless technology icon in task tray and click on [Bluetooth Settings]

Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings].

The [Bluetooth Settings] screen will appear, from where you can connect a mouse manually.

2. Right-click on the mouse registration icon, and then click on the [Connect] button

The [Bluetooth Settings] window will open.

3. Turn on the mouse, enable connection mode, and click on the [OK] button in the [Bluetooth Settings] window.

The mouse will be connected.



Note

If you wish to manually disconnect a device, right-click on its icon and click [Disconnect].

When a message appears, click on the [Yes] button.

Changing a connection icon

You can change a device icon that has been registered on the [Bluetooth Settings] screen.

Procedure

1. **Right-click on the Bluetooth™ wireless technology icon in the task tray, and then click on [Bluetooth Settings]**


Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings].

The [Bluetooth Settings] window will appear. Now try to change the icon for "My Mobile."

2. **Right-click on the "My Mobile" icon, and then click on [Change Icon]**

A list of available icons will appear.

3. **Select the  icon, and then click on the [OK] button**
The new icon will appear.



Changing a connection icon name

You can change a the name of a device icon that has been registered on the [Bluetooth Settings] screen.

Procedure

1. **Right-click on the Bluetooth™ wireless technology icon in the task tray, and then click on [Bluetooth Settings]**

Note

Alternatively, click [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings].

The [Bluetooth Settings] window will appear. Now try to change the connection name for "My Mobile" to "Pocket PC."

2. **Right-click on "My Mobile", and then click on [Rename]**

You will now be able to enter a name.



3. **Enter "Pocket PC", and then hit the [Enter] key**

The new name will appear.








Bluetooth Manager

This section provides detailed information on the settings categories in Bluetooth Manager.

Main menu

| |
|---------------------------------|
| Bluetooth Settings |
| Bluetooth Information Exchanger |
| Wireless File Transfer |
| Remote Camera |
| Add New Connection |
| Options... |
| Disable Bluetooth Radio |
| Help |
| About... |
| Exit |

| Category | Description |
|---------------------------------|---|
| Bluetooth Settings | Opens [Bluetooth Settings] window. |
| Bluetooth Information Exchanger | Opens the [Bluetooth Information Exchanger] window. |
| Wireless File Transfer | Opens the [Wireless File Transfer] window. |
| Remote Camera | Opens the [Remote Camera] window. |
| Add New Connection | Opens the [Add New Connection Wizard] window. |
| Options | <p>Allows you to check and change settings related to Bluetooth™ wireless technology on your device. Below are the tabs in this option.</p> <ul style="list-style-type: none"> -[General] tab -[Security] tab -[Bluetooth Information Exchanger] tab -[Other] tab -[Diagnostics] tab |
| Disable Bluetooth Radio | <p>Turns off Bluetooth™ wireless technology power.</p> <p> (Power Off)</p> <p> Important</p> <ul style="list-style-type: none"> • Communication will be disabled if the Bluetooth™ wireless technology power is switched OFF. The next time you want use it, right-click on the Bluetooth™ wireless technology icon in the Tasktray, and then click [Enable Bluetooth Radio]. <p> (Power On)</p> <p> Note</p> <ul style="list-style-type: none"> ○ The [Disable Bluetooth Radio] ([Enable Bluetooth Radio]) menu will only appear if the software is supported on your PC's environment. |
| Help | Displays the Bluetooth™ Utility User Guide. |
| Version | Displays the Bluetooth™ Utility version. |
| Exit | <p>Exits Bluetooth Manager.</p> <p> Important</p> <ul style="list-style-type: none"> • When you exit Bluetooth Manager, Bluetooth™ wireless technology communications will be disabled. When you next wish to use Bluetooth™ wireless Technology, please click on [Start]→[All Programs]→[Bluetooth]→[Bluetooth Settings] (in Windows 2000, click on [Start]→[Programs]→[Bluetooth]→[Bluetooth Settings]). |

Bluetooth Information Exchanger

This section provides detailed information on the settings categories in Bluetooth Information Exchanger.

Main window






1 [Bluetooth] menu

| Category | Description |
|------------------|--|
| Device Discovery | Detects Bluetooth TM wireless technology devices. |
| Options | <p>Display the menu of [Options]. Select [security] tab->[Custom level] for [Service Security] and select [Bluetooth Information Exchanger] tab -> [Advanced] for the others and then allows detailed setting of categories related to Bluetooth Information Exchanger.</p> <ul style="list-style-type: none">-[Service security]-[File transfer] tab-[Object push] tab-[Image transfer] tab-[Associate] tab-[Preferred profile] tab-[Display filtering] tab |
| Help | Displays Bluetooth TM Utility User Guide. |
| About | Display version information. |

2 Data exchange folders

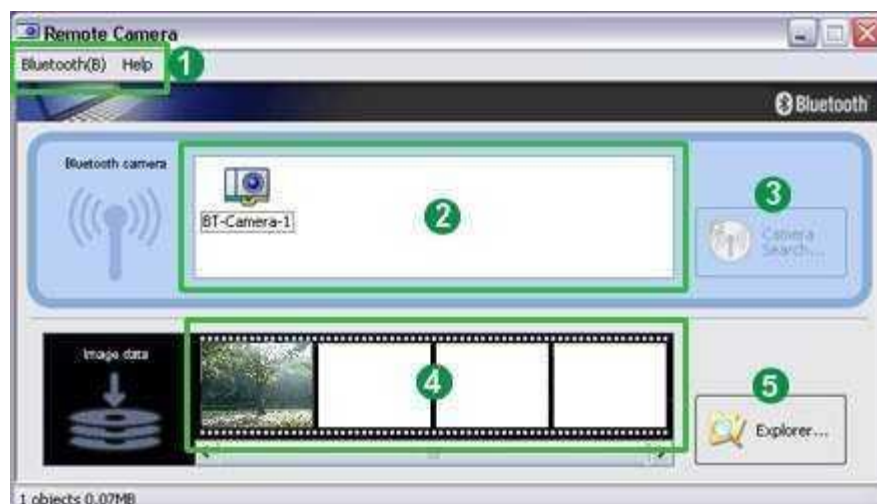
Three folders are available for data exchange: "Image transfer", "File transfer" and "Object Push".

| Category | Description |
|---|--|
|  Image Transfer | Click on the icon to display a list of devices. "Image box" is a folder on your PC used for transferring images. |
|  File Transfer | Click on the icon to display a list of devices. "Shared folder" is a shared folder on your PC used for transferring files. |
|  Object Push | Click on the icon to display a list of devices. "Inbox" is a folder on your PC used for exchanging business cards. |

Remote Camera

This section provides detailed information on the settings categories in Remote Camera.

Main window



1 Menu

■[Bluetooth] menu

| Category | Description |
|---------------|--|
| Device Search | Searches for remote cameras. |
| Properties | <p>[Device detection filter]</p> <p>The program may discover devices other than digital cameras, depending on which profiles are supported by those devices.</p> <p>Adjusting the setting to "Loose filtering" will increase the likelihood that devices other than those intended will be detected.</p> <p>The further you slide the setting towards "Tight filtering", the stricter will be the criteria determining device detection, and the lower the likelihood will be that irrelevant devices will be included.</p> <p>Please adjust the filtration level according to the results of the search.</p> <p>[Consecutive image settings]</p> <p>Allows you to set the number of consecutive images captured by your digital camera (between 2 and 16 inclusive).</p> <p>[Captured image size settings]</p> <p>Images will be sent to your PC after having been automatically converted to the size specified in the dialog box below, regardless of the size of the original image data.</p> <p>[Inbox settings]</p> <p>Opens the "Browse folders..." dialog box and allows you to select the folder where you would like your captured images to be saved.</p> |
| Exit | Exits Remote Camera. |

■[Help] menu

| Category | Description |
|-----------------------------------|---|
| Remote Camera version information | Displays version information for the Remote Camera. |

② List of cameras

A list of cameras that have been registered as remote cameras will be displayed.

③ [Camera Search...] button

Clicking on this button will execute a search for remote cameras.

④ Display images

Images transferred to the PC from a remote camera will be displayed.

⑤ [Explorer...] button

Clicking on this button will display the folders on the hard drive where images that have been transferred to the PC have been stored.

Note

! A folder for saving your images will be created automatically.

Camera operation window



① Camera images

Images as seen through the lens of your remote camera will be displayed.

② Display magnification

The size of the operating window display can be adjusted from 100% (1x) to 300% (3x).

Important

! Increasing the size of the operating window will impede its ability to display images, and will have an adverse effect on other processes being performed by your PC. Please adjust the magnification as appropriate for your intended use.

③ [Explorer...] button

Clicking on this button will display the folders on the hard drive where images that have been transferred to the PC have been stored.

④ Shutter button (consecutive images)

Clicking this button will cause the camera to take the number of images specified in [Consecutive image settings] under the [Bluetooth] menu and then send those images to your PC.

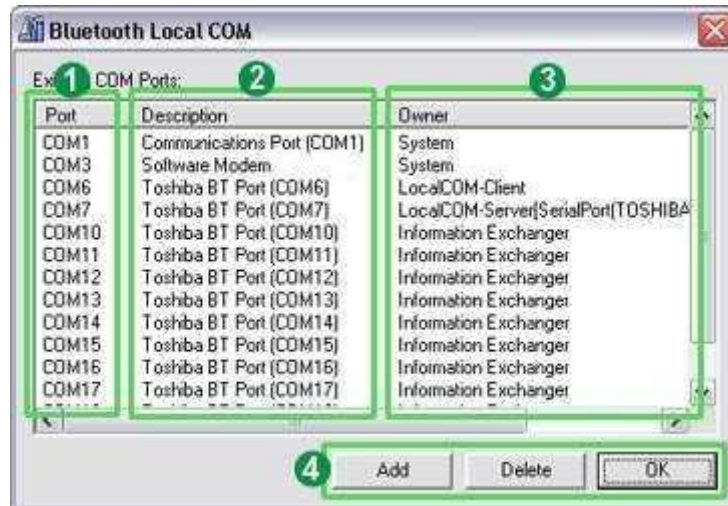
5 Shutter button (single images)

Clicking this button will cause the camera to take one picture and then send the image to your PC.

Bluetooth Local COM

This section provides detailed information on the settings categories in Bluetooth Local COM.

Main window



1 Port

Displays a list of configured ports.

2 Description

Displays the function of each port.

Ports displayed as "Toshiba BT Port (COMxx)" are Bluetooth virtual COM ports.



3 Owner

Displays the application used to create those COM ports.

The following information will appear for ports created by Bluetooth Local COM.

| | |
|---------------------|---|
| COM port for client | Local COM - Client |
| COM port for server | Local COM - Server [(name of service supplied by port)] |

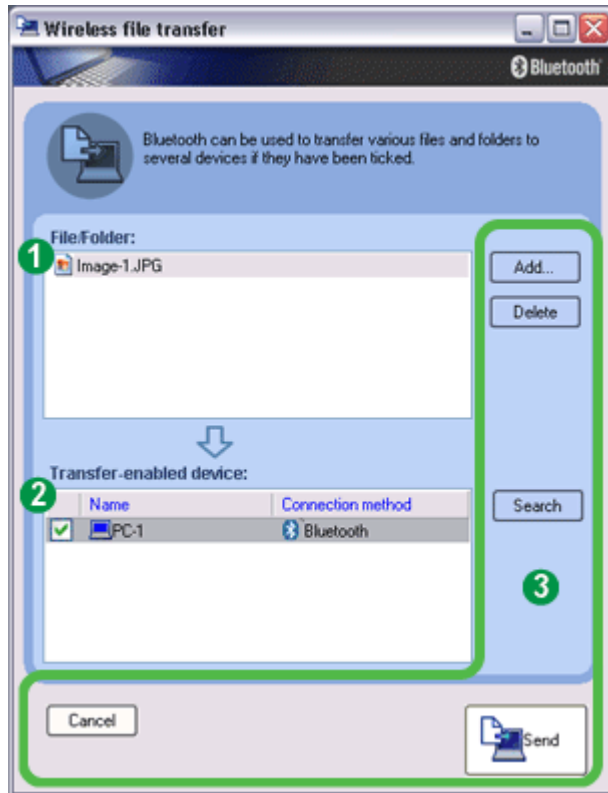
4 Function buttons

| Category | Description |
|----------|--|
| Add | <p>Starts the Add COM Port Wizard.</p> <p> Note</p> <ul style="list-style-type: none">There can be up to 64 ports. If COM ports 1 to 64 already exist, you will not be able to add another port. |
| Delete | <p>Deletes selected port.</p> <p> Note</p> <ul style="list-style-type: none">You can only delete COM ports created by Bluetooth Local COM. |
| OK | <p>Click on this button to confirm settings information, and close the Bluetooth Local COM window.</p> |

Wireless File Transfer

This section provides detailed information on the settings categories in Wireless File Transfer.

Main window



1 Files/folders

Displays a list of files/folders to be sent.

2 Devices to which data can be sent

Displays other devices to which you are able to send files. Files will be sent to those devices that have been checked.

Name

Displays name of destination devices.

Connection method

Displays method used to connect to other devices.

Note

- 1 If a device to which you would like to send data is not listed, you can click on the [Search] button to search for other devices.

3 Function buttons

| Category | Description |
|----------|--|
| Add | Allows you to add files and/or folders you would like to send. |
| Delete | By selecting a file from the list and clicking on the "Delete" button, you can remove that file (i.e., the file will not be sent). |
| Search | Searches for Bluetooth™ wireless technology devices. |
| Cancel | Closes the "Wireless File Transfer" window. |
| Send | Sends a file. |

Troubleshooting

This section describes possible causes and countermeasures to be considered when your Bluetooth™ wireless technology device cannot be configured properly, functions abnormally, or presents other problems related to its operation.

Troubleshooting by application

- | General operation of the Bluetooth™ Utility
- | Using a wireless modem station
- | Using an access point
- | Using a printer
- | Using a headset
- | Using a keyboard or mouse
- | Using a camera
- | Using a PDA
- | Using a mobile telephone

General operation of the Bluetooth™ Utility

Bluetooth Manager



Bluetooth™ wireless technology icon does not appear in task tray

- | If the Bluetooth™ wireless technology icon does not appear in the Tasktray, Bluetooth Manager will not be active, and you will be unable to use any of the functions of the Bluetooth™ Utility. Start the utilities as instructed below to enable Bluetooth Manager to start automatically and allow all functions to be utilized.

Bluetooth Settings

(from Windows XP)

[Start] > [All Programs] > [Bluetooth] > [Bluetooth Settings]

(from Windows 2000)

[Start] > [Programs] > [Bluetooth] > [Bluetooth Settings]

Remote Camera

(from Windows XP)

[Start] > [All Programs] > [Bluetooth] > [Remote Camera]

(from Windows 2000)

[Start] > [Programs] > [Bluetooth] > [Remote Camera]

Wireless File Transfer

(from Windows XP)

[Start] > [All Programs] > [Bluetooth] > [Wireless File Transfer]

(from Windows 2000)

[Start] > [Programs] > [Bluetooth] > [Wireless File Transfer]

Bluetooth Settings



Clicking on the [New Connection] button brings up the message "Unable to prepare Bluetooth."

- | The wireless communication switch is turned off. Please switch it on.



Remote device(s) cannot be detected

- | The other device(s) may have been set to Non-discoverable mode. Please check the mode settings on the device.



Services on a remote device are undiscoverable

- | The other device may be using a profile that is not supported by the Bluetooth™ Utility

Please check the phone being used on the other device.

- ! The following profiles are compatible with [Bluetooth Settings].
DUN, FAX, LAP, SPP, HID, HCRP, FTP, OPP, HSP, PAN and BIP

Devices running profiles other than those above will not be able to be registered with [Bluetooth Settings].

Bluetooth Information Exchanger



An error occurs when you try to send a file using the right-click menu.

- ! Select and right-click on a file, and then you can choose either the FTP or OPP profile to use when you click on [Send to Bluetooth Device].
If neither profile is supported by the destination device, the file will not be able to be sent from the right-click menu.

The transmission will also fail if you use FTP to send a file to a device that only supports the OPP profile.

Should this occur, please click on [Bluetooth]->[Options]-[Bluetooth Information Exchanger]tab->[Advanced]->[Preferred Profile] tab to configure the Transfer mode.



Cannot open shared folder on remote device using [File Transfer].

- ! The other device may have a certain security level enforced (Non-connectable mode etc). Please confirm the security settings of the other device. Please enter the correct password if you are asked to enter one.

Remote Camera

- ! See "Using a camera"

Bluetooth Local COM



Cannot add port

- ! A maximum of 64 virtual COM ports can be added. You will be unable to add another port if 64 ports have already been configured.

Using a wireless modem station



Modem station cannot be detected

- ! If the modem station is connected to and is being used by another device, the modem station will be undetectable even if you search for it.



Cannot connect to modem station

- ! If the modem station is connected to and is being used by another device, no other device will be able to connect to the modem station.



Bluetooth passkey entry failed

- ! The Bluetooth passkey (PIN code) comprises a sequence of alphanumeric characters, with the letters able to be rendered in upper and lower case.
If [Caps Lock] is on, the Bluetooth passkey may not be able to be entered correctly.



Cannot connect to telephone line

- ! Please ensure that the telephone cable is connected from the socket to the "LINE" terminal on the modem station.

Note

If the telephone cable has come loose because it has not been fully inserted into the socket, the resulting poor contact may prevent data from being transmitted accurately.

Communication will be impossible if the interior of the cable has been broken. Please replace the cable with another one.

- ! Please ensure that the two slide switches on the underside of the main unit have been set to the "NORMAL" and "MODEM" positions respectively.

? **Cannot connect to the Internet**

- | The telephone number of the connection (i.e., the telephone number for the access point of your Internet service provider) may not be correct. Please check the telephone number.
- | The user ID and/or password for the provider with whom you have signed up may have been entered incorrectly. Please check the user ID and password.
- | The default connection may have been configured with different settings. Please set the connection configured for mobile telephone use as the default connection.
- | When you place a call using a company switchboard or other exchange, the system may require you to enter a "0" before the telephone number itself. Please check the type of telephone line you are using

? **Cannot send or receive faxes**

- | Once you have registered a wireless modem station as your fax server, you will need to enter the fax settings from the [Printer and Faxes] window in the Control Panel.
Please refer to "Using a modem station for fax transmissions" for information on the configuration procedure.
- | The telephone number of the fax destination may have been entered incorrectly. Please check the telephone number.
- | If the setting under COM Auto Connect Settings has been set to "Off", a connection will not automatically be established with the modem. Please connect to the modem manually.
- | When you place a call using a company switchboard or other exchange, the system may require you to enter a "0" before the telephone number itself. Please check the type of telephone line you are using.
- | The fax service may not have been enabled for sending (or receiving). Please check the settings by following the procedure below.

1. **Open [Printers and Faxes] from the Control Panel, right-click on the [Fax] icon, and then click on [Properties]**
The [Fax properties] window will appear.
2. **Select the [Device] tab, right-click on the modem you wish to use, and then click on [Properties]**
3. **Select the [Send] tab, and then confirm that "Enable device to send" has been checked.**
4. **Select the [Receive] tab, and then confirm that "Enable device to receive" has been checked (when you wish to receive faxes)**
5. **Click on the [OK] button**

Using an access point

? **Access point cannot be detected**

- | If the access point is connected to and is being used by another device, the access point will be undetectable even if you search for it.

? **Cannot connect to access point**

- | If the access point is connected to and is being used by another device, no other device will be able to connect to the access point.

? **Cannot connect to LAN**

- | The LAN cable may not be properly connected to the access point. Please check the connection status.

Note

If the LAN cable has come loose because it has not been fully inserted into the socket, the

resulting poor contact may prevent data from being transmitted accurately.
Communication will be impossible if the interior of the LAN cable has been broken. Please replace the cable with another one.

- | The access point may not have been configured correctly, and may not be able to maintain the connection to the LAN.
Please refer to the product instruction manual for information on how to configure your access point.



Cannot connect to the Internet

- | If you are using a LAN to connect to the Internet, the LAN environment of the company or location where you are trying to establish the connection may require you to connect via a proxy server .

Using a printer



Printer cannot be detected

- | If the printer is connected to and is being used by another device, the printer will be undetectable even if you search for it.



Cannot connect to printer

- | If the printer is connected to and is being used by another device, no other device will be able to connect to the printer.



Cannot print/garbled print output

- | The printer driver of the printer you are using may not have been installed correctly. Please refer to your product instruction manual and re-install the driver.
- | Please check to see if the printer has run out of paper, ink or other consumable item.
- | If you are using a printer while several Bluetooth™ wireless technology devices are connected to the PC, the devices may not function normally. Please disconnect the other devices and try to print again.

Using a Headset



Headset cannot be detected

- | If the Headset is connected to and is being used by another device, the Headset will be undetectable even if you search for it.



Cannot connect to Headset

- | If the Headset is connected to and is being used by another device, no other device will be able to connect to the Headset.
- | A Bluetooth™ wireless technology connection will be impossible if the Headset is connected to a power adaptor. Please remove the power adaptor and re-connect.



Sound cuts out/cannot hear anything

- | Using a headset with other Bluetooth™ wireless technology devices may cause problems such as interruptions in sound, reduced transfer speed or errors during file transfer, and disconnection of other devices. We strongly recommend using the headset on its own, not in conjunction with any other device.
- | Please confirm that the headset is being operated correctly.
- | Please check the volume settings on your headset and PC.
- | If Windows Media Player or another audio-related application is active when you try to connect your headset, you may find it impossible to connect properly to the headset, or even to use it at all.
Please start the audio application after you have established a connection with the headset.

Using a keyboard or mouse

- ? Keyboard or mouse cannot be detected**
 - | If the keyboard or mouse is connected to and is being used by another device, the keyboard or mouse will be undetectable even if you search for it.
- ? Cannot connect to keyboard or mouse**
 - | If the keyboard or mouse is connected to and is being used by another device, no other device will be able to connect to the keyboard or mouse.

Using a camera

- ? Camera cannot be detected**
 - | If the camera is connected to and is being used by another device, the camera will be undetectable even if you search for it.
- ? Cannot connect to camera**
 - | If the camera is connected to and is being used by another device, no other device will be able to connect to the camera.
- ? Images from the camera can be displayed, but no pictures can be taken**
 - | The memory card in the camera may be full.
Please make a backup of all your necessary data on alternative media, then delete the images from the memory card, and ascertain how much free space remains.
- ? Camera images do not appear in window**
 - | The camera may not have been set to remote camera mode (image browse mode, configuration mode, etc).
With some devices, the connection will be automatically terminated if you change the settings while in a mode other than remote camera mode. Please re-connect to the camera when you next wish to use the device in remote camera mode.

Using a PDA

- ? Cannot make an ActiveSync connection**
 - | Please confirm that you have installed ActiveSync v3.7 or higher on your PC.
 - | ActiveSync is installed to COM7 as a default. Please refer to "Synchronising information using ActiveSync" and re-configure your ActiveSync connection.
If a port other than COM7 has been used, please amend the ActiveSync connection settings accordingly.
- ? Cannot locate a saved file**
 - | The type of file sent to your PDA, as well as the profile used to send the file, may affect where folders saved on your PDA are located.

Examples:
Images transferred to your PDA using "Image transfer" > saved in the "Image transfer" folder
Images transferred to your PDA using "File transfer" > saved in the "Shared folder"

Using a mobile telephone



Mobile telephone cannot be detected

- | If the mobile telephone is connected to and is being used by another device, the mobile telephone will be undetectable even if you search for it.



Cannot connect to mobile telephone

- | If the mobile telephone is connected to and is being used by another device, no other device will be able to connect to the mobile telephone.



Cannot send images to mobile telephone

- | Please use the appropriate transfer method, according to the profiles supported by your mobile telephone.
If OPP is supported: right-click on a file to send it
If BIP is supported: use "Image transfer" under Bluetooth Information Exchanger to send images



Cannot connect to the Internet

- | The telephone number of the connection (i.e., the telephone number for the access point of your Internet service provider) may not be correct. Please check the telephone number.
- | The user ID and/or password for the provider with whom you have signed up may have been entered incorrectly. Please check the user ID and password.
- | The default connection may have been configured with different settings. Please set the connection configured for mobile telephone use as the default connection.



Cannot send or receive faxes

- | Once you have registered a mobile telephone as your fax server, you will need to enter the fax settings from the [Printer and Faxes] window in the Control Panel.
Please refer to "Using a modem station for fax transmissions" for information on the configuration procedure.
- | The telephone number of the fax destination may have been entered incorrectly.
Please check the telephone number.
- | If the setting under COM Auto Connect Settings has been set to "Off", a connection will not automatically be established with the modem. Please connect to the mobile telephone manually.
- | The fax service may not have been enabled for sending (or receiving). Please check the settings by following the procedure below.

- 1. Open [Printers and Faxes] from the Control Panel, right-click on the [Fax] icon, and then click on [Properties]**
The [Fax properties] window will appear.
- 2. Select the [Device] tab, right-click on the modem you wish to use, and then click on [Properties]**
- 3. Select the [Send] tab, and then confirm that "Enable device to send" has been checked.**
- 4. Select the [Receive] tab, and then confirm that "Enable device to receive" has been checked when you wish to receive faxes)**
- 5. Click on the [OK] button**