

Installing Bluetooth

To install the internal Bluetooth, follow the procedures below.

Removing the battery pack

Before installing the Bluetooth board, remove the battery pack.

Installing the Bluetooth board

To install the Bluetooth board, follow the steps below and refer to Figure 1 and Figure 2.

1. Remove one screw securing the Bluetooth board cover.
2. Remove the Bluetooth board cover.

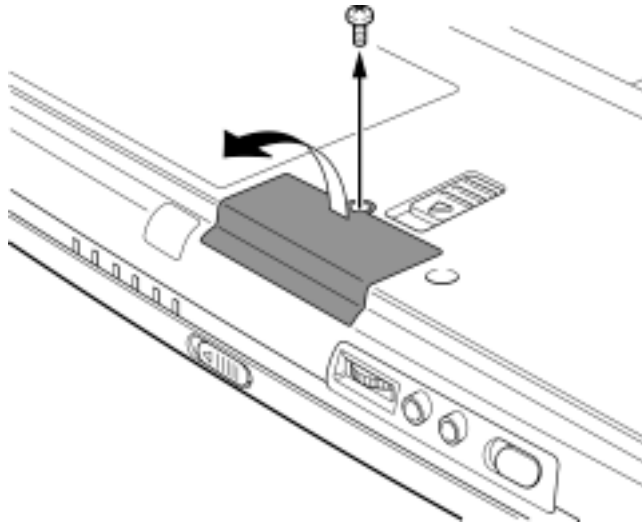


Figure 1 Removing the Bluetooth board cover

3. Connect the antenna cable to the Bluetooth board.

Installing Bluetooth

4. Align the board's connector with the connector on the computer. Press the board carefully and firmly to ensure a solid connection.

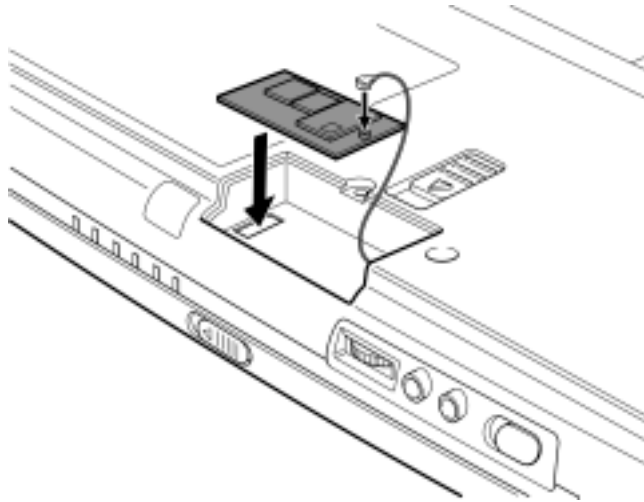


Figure 2 Installing the Bluetooth board

5. Seat the Bluetooth Board cover and secure it with one screw.

Installing the battery pack

Install the battery pack.

Functional Specifications of Toshiba Bluetooth Utility Version 1.0

TOSHIBA CORPORATION

REV No.	DATE	CONTENTS	DEP.	REVISED	APP'D	STGE.PER.
00	00/09/20	Initial draft	(PS5)	Tada		

1. INTRODUCTION	4
2. SUMMARY	4
2.1 COMPATIBLE OPERATING SYSTEMS	4
2.2 LOCATION OF BLUETOOTH UTILITY	4
2.3 UTILITY PROGRAMS	4
2.4 FUNCTIONS OF BLUETOOTH SERVICE CENTER	5
2.5 FUNCTIONS OF BLUETOOTH MONITOR	5
2.6 FUNCTIONS OF BLUETOOTH LOCALCOM	5
3. BLUETOOTH SERVICE CENTER	6
3.1 STARTING BLUETOOTH SERVICE CENTER	6
3.2 BLUETOOTH SERVICE CENTER WINDOW	6
3.3 MENU BAR	10
3.4 USER MODE BAR	12
3.5 TOOLBAR	16
3.6 REMOTE DEVICE TREE VIEW	21
3.7 REMOTE DEVICE LIST VIEW	23
3.8 REMOTE SERVICE LIST VIEW	23
4. BLUETOOTH MONITOR	25
4.1 STARTING BLUETOOTH MONITOR	25
4.2 TASKBAR ICON	25
4.3 POP-UP MENUS	26
4.4 PROPERTIES	27
5. BLUETOOTH LOCALCOM	31
5.1 STARTING BLUETOOTH LOCALCOM	31
5.2 LOCALCOM WINDOW	31
5.3 LOCALCOM SETUP WIZARD	33
5.4 CREATING A LOCALCOM SERVER	34
5.5 CREATING A LOCALCOM CLIENT	35
5.6 CONNECTING TO A REMOTE SERVICE	35

1. Introduction

This document contains the functional specifications for the Toshiba Bluetooth Utility.

2. Summary

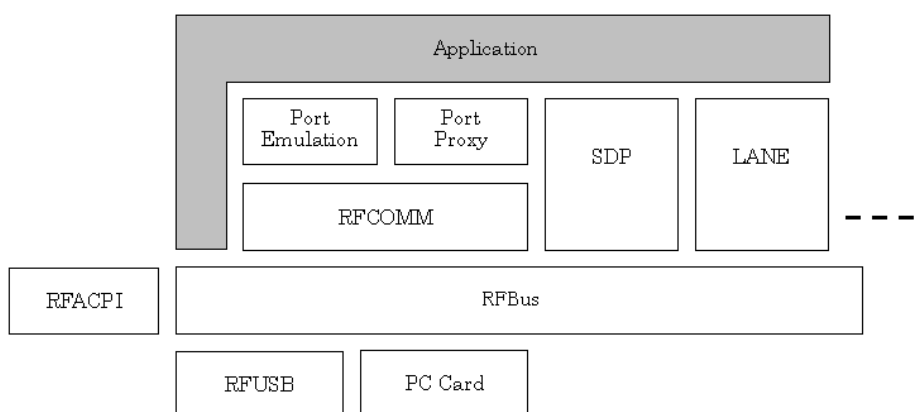
This section contains a summary of the Toshiba Bluetooth Utility.

2.1 Compatible Operating Systems

The Bluetooth Utility can be used with one of these Microsoft operating systems: Windows 95, Windows 98 or Windows 98SE, Windows ME, Windows NT 4.0 with Service Pack 6, or Windows 2000.

2.2 Location of Bluetooth Utility

The Bluetooth Utility belongs to the Application group at the top of the Bluetooth software stack.



Location of Bluetooth Utility

2.3 Utility Programs

The Bluetooth Utility consists of the following three utility programs.

■ Bluetooth Service Center

Bluetooth Service Center collectively manages all Bluetooth services. Its main functions are to confirm remote devices and provide a connection between local and remote services. You can also use it to switch the security settings according to your location at the time of connection.

■ Bluetooth Monitor

You use Bluetooth Monitor, which appears in the taskbar, to configure the default settings of Bluetooth services and to monitor and control Bluetooth operations. You can use the taskbar pop-up menus to start Bluetooth Service Center and perform other functions.

■ Bluetooth LocalCOM

Bluetooth LocalCOM is located in the Control Panel. You can use it to create and manage local COM ports for use with Bluetooth. You can also access the LocalCOM window from the Bluetooth Service Center window.

2.4 Functions of Bluetooth Service Center

With Bluetooth Service Center, you can:

- Search for remote devices.
- Display a list view of remote devices.
- View the properties of remote devices.
- Confirm the connection status of remote devices.
- Search for remote services.
- Display a list view of remote services.
- View the properties of remote services.
- Confirm the connection status of remote services.
- Connect and disconnect local and remote services.
- Save appropriate security settings for each User Mode.
- Change assigned security settings for each User Mode.
- Reconnect to remote services after starting Bluetooth Service Center.
- Use with Bluetooth device groups. (*Available in Version 2.0*)

2.5 Functions of Bluetooth Monitor

With Bluetooth Monitor, you can:

- View the connection status (Connected, Waiting to Connect, or Not Connected) via the taskbar icon.
- Use the menu to turn the Bluetooth module Software Switch ON or OFF.
- Use the menu to adjust the Bluetooth default settings.
- Use the menu to start Bluetooth Service Center.
- Use the menu to open SPANworks.
- Use the menu to exit Bluetooth service.

2.6 Functions of Bluetooth LocalCOM

With Bluetooth LocalCOM, you can:

- Create and delete local COM ports for use with Bluetooth.
- Make and modify Service Profile settings for local COM ports.
- View the properties and type of a local service.
- View the properties and type of a local profile.
- Connect to local and remote services.

3. Bluetooth Service Center

Bluetooth Service Center collectively manages all Bluetooth services. Its main functions are to confirm remote devices and connect local and remote services. You can also use it to switch the security settings according to your location at the time of connection. The Bluetooth Service Center user interface and functions are described below.

3.1 Starting Bluetooth Service Center

To start Bluetooth Service Center, select **Programs**, **Toshiba Bluetooth Utility**, and then **Bluetooth Service Center** from the **Start** menu. You can also start Bluetooth Service Center from the Bluetooth Monitor menu.

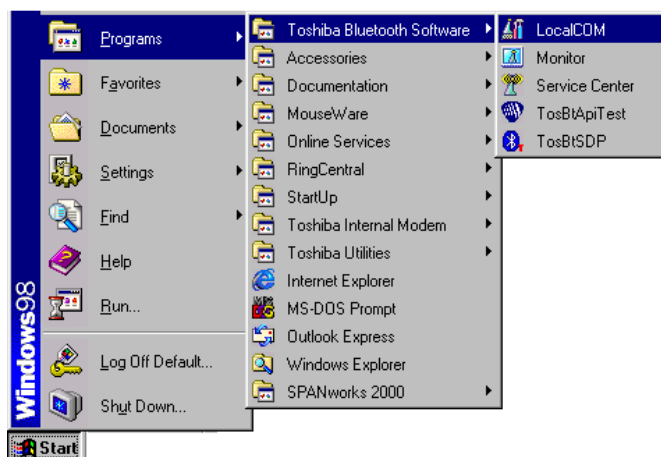


Figure 3.1 Bluetooth Service Center programs menu

3.2 Bluetooth Service Center Window

When Bluetooth Service Center is started, this main window appears. The window items and functions are described below.

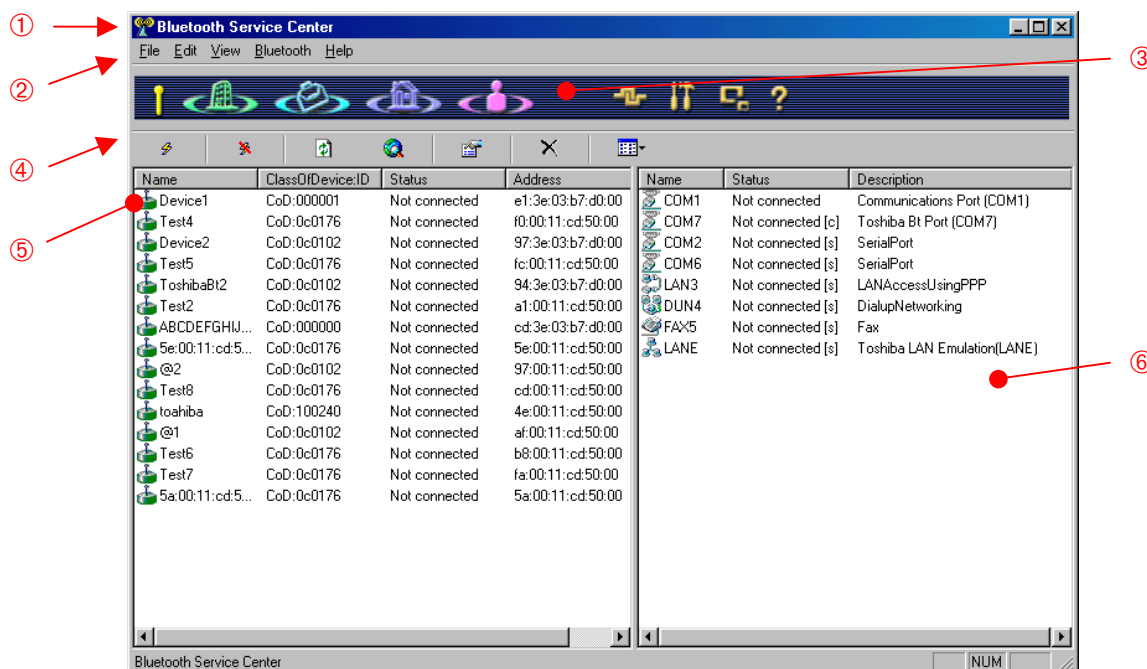
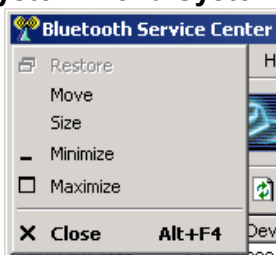


Figure 3.2 Bluetooth Service Center window

① System menu/System buttons



System menu



System buttons

Description of system menu items

No.	Item	Description
1	Restore	Restores window to original size
2	Move	Enables you to move the window
3	Size	Enables you to adjust the window's size
4	Minimize	Minimizes the window size
5	Maximize	Maximizes the window size
6	Close Alt+F4	Closes the window

Description of system buttons

No.	Item	Description
1		Bluetooth Service Center program icon
2		Close
3		Maximize/Restore (toggle)
4		Minimize

② Menu bar



No.	Add-on Items	Description
1	Bluetooth	Adds on Bluetooth Service Center menu item
2	Help	Adds on Bluetooth Service Center help item

No.	Bluetooth Items	Description
1	Device Discovery	Discovers devices
2	Service Search	Searches for services
3	User Mode	Opens User Mode selection menu
4	User Mode Properties	Displays User Mode properties
5	Device Properties	Displays local device properties
6	Profile Properties	Displays local service profile properties
7	LocalCOM Setup Wizard	Opens LocalCOM Setup Wizard

No.	Help Items	Description
1	Bluetooth Beginner's Guide	Opens Bluetooth Beginner's Guide
2	Bluetooth Utility User's Guide	Opens Bluetooth Utility User's Guide
3	About Bluetooth Service Center	Displays version information

③ User Mode bar



No.	Item	Description
1	Bluetooth RF Icon	Displays signal status for Bluetooth module
2	Office	Office mode button
3	Mobile	Mobile mode button
4	Home	Home mode button
5	Others	Others mode button
6	All Reconnect	Service reconnection button
7	User Mode Properties	User Mode properties button
8	Screen Selection	Show/hide info toggle button
9	Help	Help button

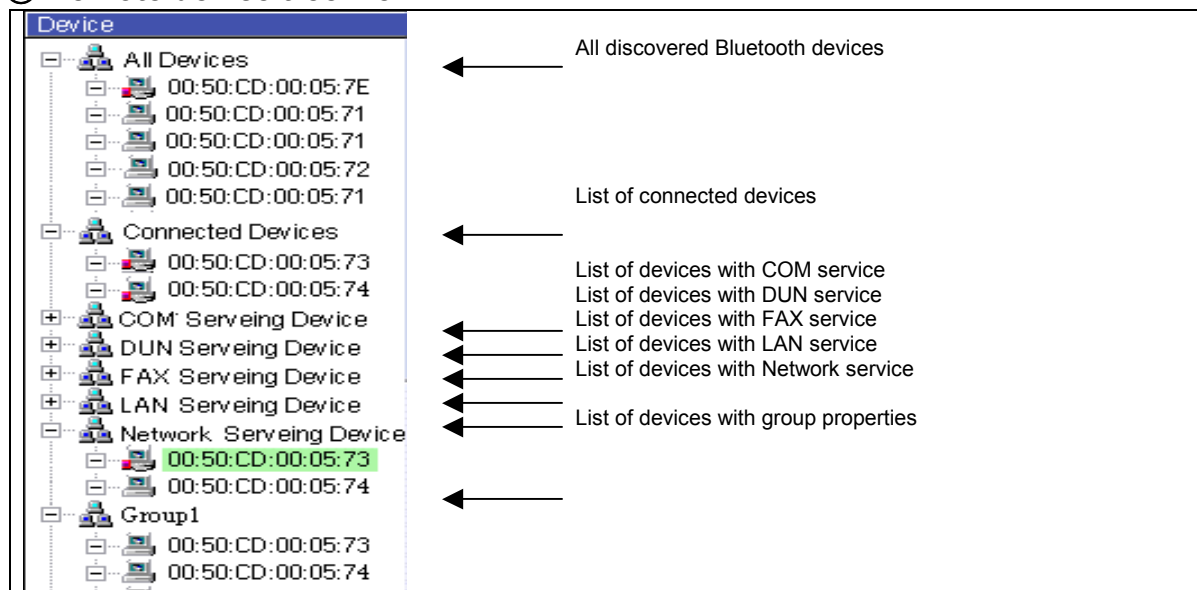
You use the **User Mode** bar to manage the settings that are configured for each of the User Modes (Office, Home, Mobile, and Others). You can use the **User Mode** bar to configure the Discoverability Mode and Link Policy settings for each User Mode and switch between the different settings. You can also use the **User Mode** bar to connect to services automatically when Bluetooth is started. (Office is the default User Mode setting.)

④ Toolbar



No.	Item	Description
1	Connect	Connects to device or service
2	Disconnect	Disconnects from device or service
3	Refresh	Updates device and service information
4	Service Search	Searches for devices and services
5	Properties	Displays device and service properties
6	Delete Item	Deletes device or item
7	View	Changes view display format
	[TBD]	[Additional buttons may be added.]

⑤ Remote device tree view



The remote device tree view displays a list of discovered Bluetooth remote devices sorted according to services and groups. This type of display categorizes items by usage and is called a filtering display. When you select one of the list items, the corresponding device or service information is displayed in a list view on the right.

⑥ Remote device and service list views

• Remote device list view

Name	ClassOfDeviceID	Status	Address
ToshibaBt	CoD:000001	Not connected	94:3e:03:b7:d0:00
ToshibaBt	CoD:0c0102	Not connected	e6:3e:03:b7:d0:00
98:92:00:cd:5...	CoD:000000	Not connected	98:92:00:cd:50:00
Test3	CoD:0c0176	Not connected	5a:00:11:cd:50:00
Device1	CoD:0c0102	Not connected	97:3e:03:b7:d0:00
TestLAN	CoD:0c0176	Not connected	9d:00:11:cd:50:00
toahiba	CoD:100240	Not connected	4e:00:11:cd:50:00
WinMe(JP)	CoD:0c0176	Not connected	f0:00:11:cd:50:00

The remote device list view displays a list of remote devices that correspond to the filtering item you selected in the remote device tree view. You can view the list as Large Icons, Small Icons, List or Details. Connected devices are indicated on the list by a connection mark that appears next to the remote device icon.

• Remote service list view

Name	Status	Description
COM1	Not connected	Communications Port (COM1)
COM6	Connected [c]	Toshiba Bt Port (COM6)
COM2	Not connected [s]	SerialPort
LAN3	Not connected [s]	LANAccessUsingPPP
DUN4	Not connected [s]	DialupNetworking
FAX5	Not connected [s]	Fax
LANE	Not connected [s]	Toshiba LAN Emulation(LANE)

The remote service list view displays a list of registered services for a remote device that are selected by a filtering item in the remote device tree view. You can view the list as Large Icons, Small Icons, List or Details. Connected devices are indicated on the list by a connection mark that appears next to the remote service icons.

3.3 Menu Bar

The **Menu** bar features five menu items (File, Edit, View, Bluetooth, and Help), as shown in Figure 4.1 below.



Figure 4.1 Menu bar

3.3.1 File Menu

No.	File Item	Description
1	Exit	Exits Bluetooth Service Center

3.3.2 Edit Menu

No.	Edit Item	Description
1	Connect	Connects to the selected service
2	Disconnect	Disconnects from the selected service
3	Delete	Deletes the selected view item

3.3.3 View Menu

No.	Bluetooth Item	Description
1	Mini Window	Reduces the window size
2	Normal Window	Returns to normal the window
3	Large Icons	Displays devices and services as large icons
4	Small Icons	Displays devices and services as small icons
5	List	Displays a list
6	Details	Displays details
7	Refresh	Updates device and service information

3.3.4 Bluetooth Menu

No.	Bluetooth Item	Description
1	Device Discovery	Discovers devices
2	Service Search	Searches for services
3	User Mode	Opens User Mode selection menu
4	User Mode Properties	Displays User Mode properties
5	Device Properties	Displays local device properties
6	Profile Properties	Displays local service profile properties
7	LocalCOM Setup Wizard	Opens LocalCOM Setup Wizard

3.3.5 User Mode Menu

No.	Bluetooth Item	Description
1	Office	Office mode button
2	Mobile	Mobile mode button
3	Home	Home mode button
4	Others	Others mode button

3.3.6 Help Menu

No.	Help Item	Description
1	Bluetooth Beginner's Guide	Opens the Bluetooth Beginner's Guide
2	Bluetooth Utility User's Guide	Opens the Bluetooth Utility User's Guide
3	About Bluetooth Service Center	Displays the version information

3.4 User Mode Bar

You use the **User Mode** bar to manage the settings that are configured for each of the User Modes (Office, Home, Mobile, and Others). You can use the **User Mode** bar to configure the Discoverability Mode and Link Policy settings for each User Mode and switch between the different settings. You can also use the **User Mode** bar to connect to services automatically when Bluetooth is started. (Office is the default User Mode setting.)



Figure 4.2.1 User Mode bar

3.4.1 Bluetooth RF Icon

The Bluetooth RF icon displays the signal status for the Bluetooth module. The icon changes to match the change in the RF signal status. The table below describes the meaning of the different icons.

No.	Icon	Description
1		Standby (ready to receive)
2		Connected (3-image animated icon)
3		Blocked (Gray-colored icon)

3.4.2 Changing the User Mode

You can change the User Mode by selecting one of the **User Mode** buttons (Office, Mobile, Home, or Others). When you click a **User Mode** button, the Bluetooth Mode and Bluetooth Link Policy settings for the corresponding mode are selected automatically. You cannot change the User Mode when another Bluetooth application is currently using the Bluetooth service. The table below describes the meaning of the different button icons.

No.	Button Icon	Description
1		Office mode selected
2		Office mode not selected (Gray-colored display)
3		Mobile mode selected
4		Mobile mode not selected (Gray-colored display)
5		Home mode selected
6		Home mode not selected (Gray-colored display)
7		Others mode selected
8		Others mode not selected (Gray-colored display)

3.4.6 All Reconnect Button

You can use the **All Reconnect** button to reconnect any disconnected services after you have restarted the PC or the Toshiba Bluetooth Software by re-supplying power to the Bluetooth device. When you click the **All Reconnect** button, all the services are reconnected. The table below describes the meaning of the button icons.

No.	Button Icon	Description
1		Default (Gray-colored display)
2		Selected

3.4.7 User Mode Properties Button

You use the **User Mode Properties** button to display the **User Mode Properties** dialog box in order to configure the settings for each of the User Modes. When you click the **User Mode Properties** button, the **User Mode Properties** dialog box appears. The table below describes the meaning of the button icons.

No.	Button Icon	Description
1		Default (Gray-colored display)
2		Selected

3.4.8 User Mode Properties Dialog Box

You use the **User Mode Properties** dialog box to configure the settings for each User Mode. When you click the **User Mode Properties** button, the **User Mode Properties** dialog box appears. User Mode Properties consists of three tabs (Auto Link, Mode, and Link Policy) for each mode.

■ Auto Link

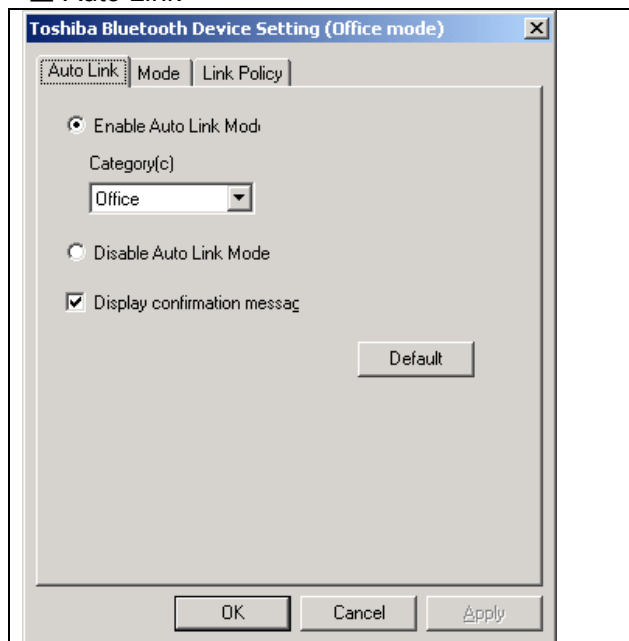
	① Select Enable Auto Link Mode to automatically link local devices with remote devices using the configured category settings whenever you start Bluetooth Service Center. The Category box displays the currently enabled category and can be used to select the required category item. If a link has not been established, no items will appear in the box. ② Select Disable Auto Link Mode if you do not want to automatically establish a device link whenever Bluetooth Service Center is started. ③ Check Display Confirmation Message to have a confirmation message displayed once the link is established automatically after you start the program. (This box is checked as the default setting.)
--	--

Figure 3.7.5 Auto Link tab

■ Mode

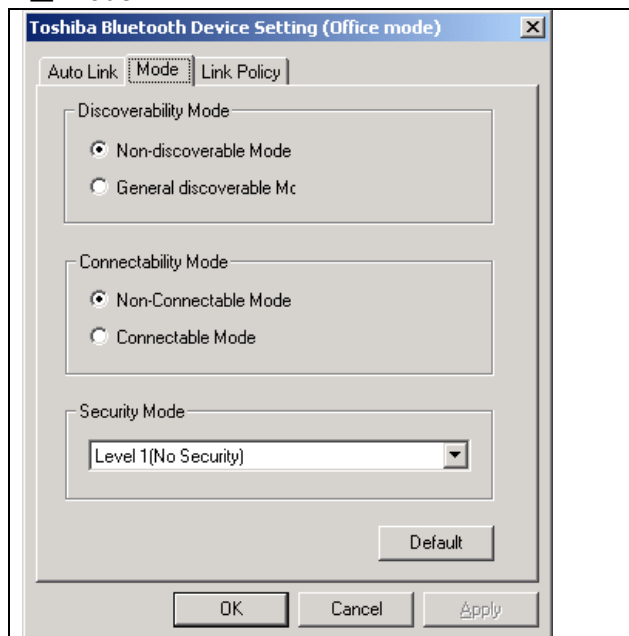
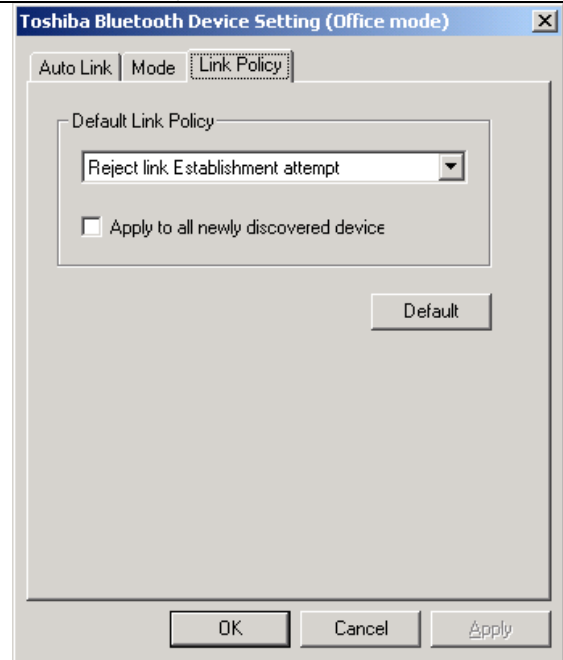
	Discoverability Mode • Non-discoverable Mode • General Discoverable Mode Connectability Mode • Non-connectable Mode • Connectable Mode Security Mode Select from the following list: Security Mode 1 (Non-secure mode) Security Mode 2 (Service level enforced security mode) Security Mode 3 (Link level enforced security mode) Default button Returns individual User Mode settings to default settings.
---	---

Figure 3.7.6 Mode tab

Security Mode Items

No	Menu Items	Description
1	Security Mode 1	Non-secure mode
2	Security Mode 2	Service level enforced security mode
3	Security Mode 3	Link level enforced security mode

■ Link Policy



Default Link Policy
Reject attempt to establish link
Prompt before accepting link establishment
Automatically accept link establishment

☐ Apply to all newly-discovered devices

Default button
Returns individual User Mode settings to default settings.

Figure 3.7.7 Link Policy tab

3.4.9 Screen Selection Button

You use the **Screen Selection** button to toggle between the normal **Bluetooth Service Center** window and a smaller window that displays only the **Menu bar** and **User Mode bar**. Click the **Screen Selection** button to toggle between the two windows. The table below describes the meaning of the button icons.

No.	Button Icon	Description
1		Default (Gray-colored display)
2		Selected



Figure 4.2.2 Mini window

3.4.10 Help Button

Click the **Help** button to view the Bluetooth Utility User's Guide. The table below describes the meaning of the button icons.

No.	Button Icon	Description
1		Default (Gray-colored display)
2		Selected

3.5 Toolbar

You use the **Toolbar** with the remote device and service list views. The buttons on the toolbar are, listed from left to right, Connect, Disconnect, Refresh, Service Search, Property, Delete, and View. Each of these buttons is described below.



Figure 3.5.1 Toolbar

3.5.1 Connect Button

You use the **Connect** button to connect a local service with a remote service. From the remote service list view, select the icon of an unconnected remote service and click **Connect**. The utility will attempt to connect the two services. If the utility connects the services successfully, a connection mark appears next to the remote service icon. The table below describes the meaning of the button icons.

No.	Button Icon	Description
1		Default (Gray-colored display)
2		Selected

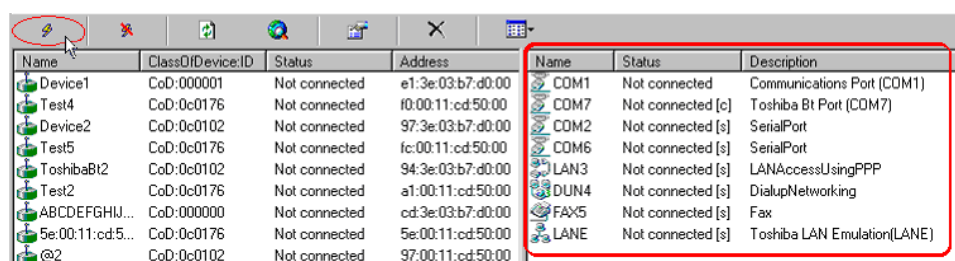


Figure 3.5.2 Using the Connect button

The table below describes the meaning of the icons.

No.	Icon	Description
1		Connection mark
2		Service disconnected (COM port service used as example)
3		Service connected (COM port service used as example)

3.5.2 Connecting to Remote Services

Once you click **Connect** and the utility successfully connects the remote and local services, a connection mark appears next to the remote service icon. The utility will attempt to connect to an existing local service. If, however, an unconnected local service cannot be found, a message appears informing you that the required local service is already connected. You can then either select **Create and connect to a new client service** or **Cancel connection**.

If you select **Create and connect to a new client service**, the LocalCOM Setup Wizard **Create LocalCOM Client** dialog box appears. Follow the on-screen instructions to create and connect to a new client service.

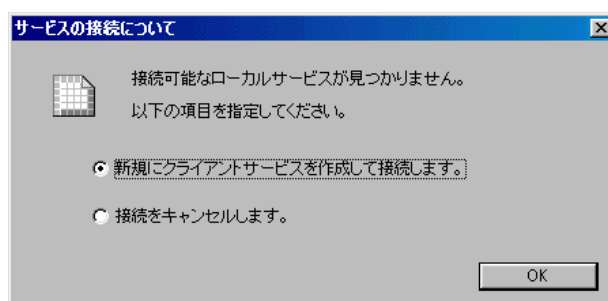


Figure 3.5.3 Service connection message

You can also select the LocalCOM Setup Wizard from the Bluetooth menu before clicking **Connect** or after canceling the connection.

(See the description of the LocalCOM utility for more information on the LocalCOM Setup Wizard.)

3.5.3 Disconnect Button

You use the **Disconnect** button to disconnect a local service from a remote service. From the remote service list view, select the icon of the remote service from which you want to disconnect, and click **Disconnect**. The utility will attempt to disconnect the services. If the utility disconnects the services successfully, the connection mark next to the remote service icon will disappear. You cannot disconnect a Bluetooth service when another Bluetooth application is currently using that service. The table below describes the meaning of the button icons.

No.	Button Icon	Description
1		Default (Gray-colored display)
2		Selected

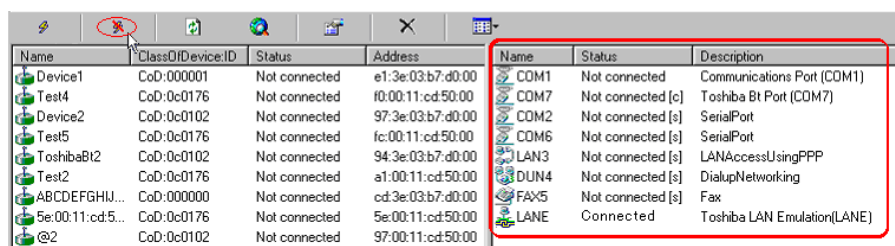


Figure 3.5.4 Using the Disconnect button

3.5.4 Refresh Button

You use the **Refresh** button to update all on-screen information. Click the **Refresh** button to update the status information for all remote devices and services. Please note that it may take several minutes to update the information for all remote devices. The table below describes the meaning of the button icons.

No.	Button Icon	Description
1		Default (Gray-colored display)
2		Selected

3.5.5 Service Search Button

You use the **Service Search** button to search for remote service information from displayed remote devices. Please note that it may take several minutes to search for information from all remote devices. The table below describes the meaning of the button icons.

No.	Button Icon	Description
1		Default (Gray-colored display)
2		Selected

3.5.6 Properties Button

You use the **Properties** button to display the properties for a selected remote device or service. From the remote device or service list view, select the icon of a remote device or service and click the **Properties** button. The properties dialog box appears. The table below describes the meaning of the button icons.

No.	Button Icon	Description
1		Default (Gray-colored display)
2		Selected

When you select a remote device from the remote device list view and click the **Properties** button, the **Device Properties** dialog box, shown below, appears.

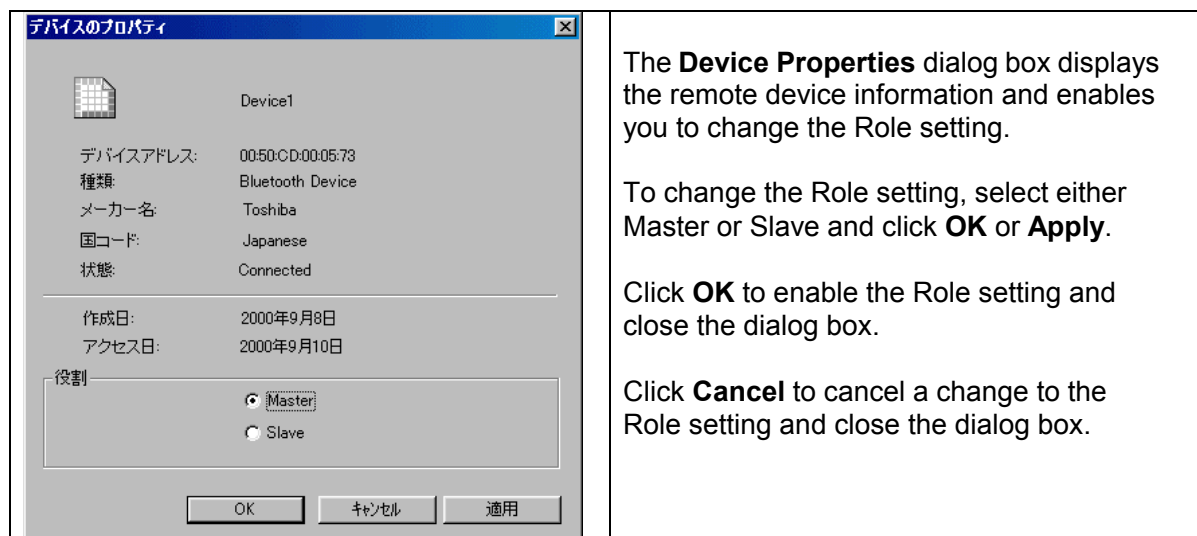


Figure 3.5.5 Device Properties dialog box

To display the **Service Properties** dialog box, select a service device from the service device list view and click the **Properties** button.

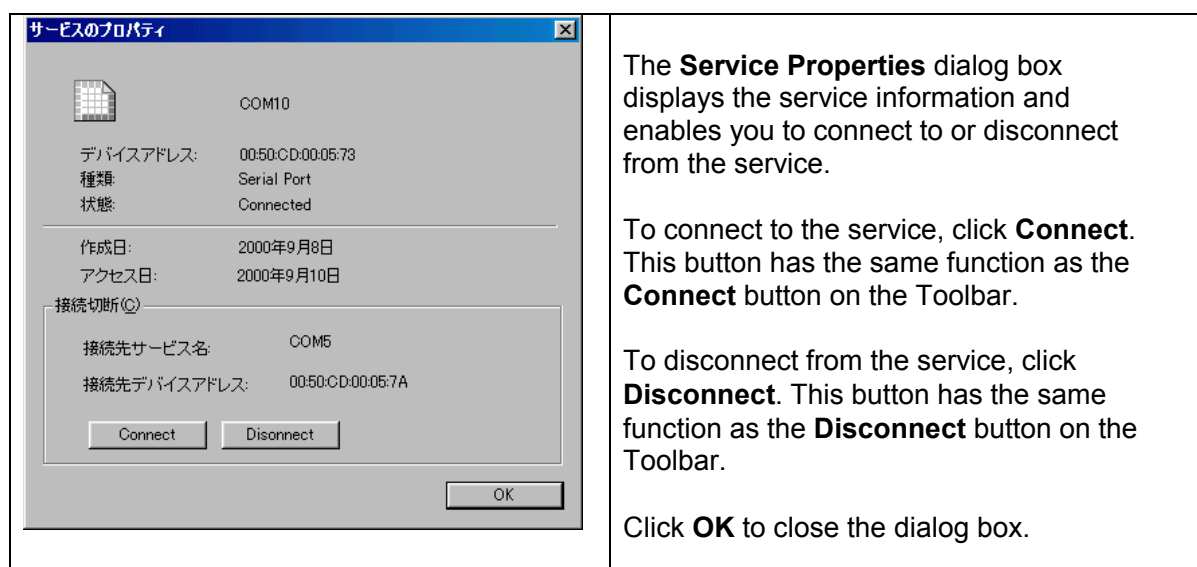


Figure 3.5.6 Service Properties dialog box (COM port service used as example)

3.5.7 Delete Item Button

You use the **Delete Item** button to delete items, such as remote device or service listings that are no longer needed. From the remote device or service list view, select the icon of the remote device or service listing you want to delete and click the **Delete Item** button. The item will be deleted from the list view. If you delete a listing for an existing device or service, you can click the **Refresh** button to re-display that listing. The table below describes the meaning of the button icons.

No.	Button Icon	Description
1		Default (Gray-colored display)
2		Selected

3.5.8 View Button

You use the **View** button to change the display format for the remote device and service list views. You can change the display format by selecting one of the **View** menu items. The table below describes the meaning of the button icons.

No.	Button Icon	Description
1		Default (Gray-colored display)
2		Selected

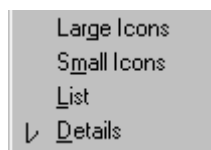


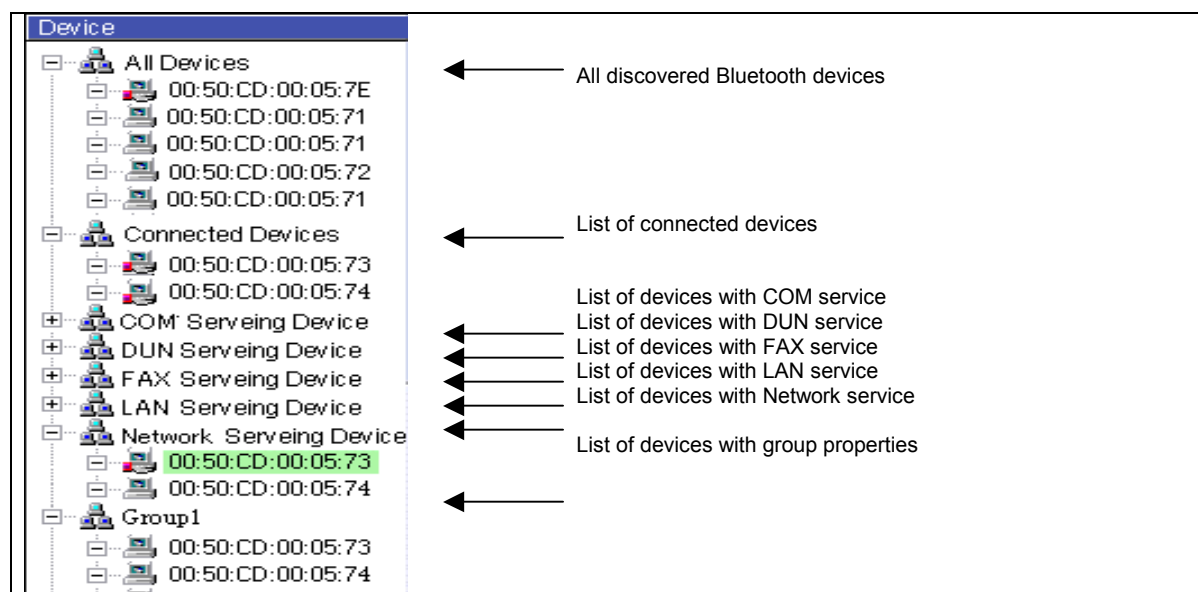
Figure 3.5.7 View menu

The table below describes the functions of the different menu items.

No.	Menu Item	Description
1	Large Icons	Displays devices and services as large icons
2	Small Icons	Displays devices and services as small icons
3	List	Displays a list
4	Details	Displays details

3.6 Remote Device Tree View

The remote device tree view displays a list of discovered Bluetooth remote devices sorted according to services and groups. You can use the tree view to quickly identify and select the devices that belong to a particular service. This type of display categorizes items by usage and is called a filtering display.



When you select one of the list items, the corresponding device or service information is displayed in the list view screen at the right.

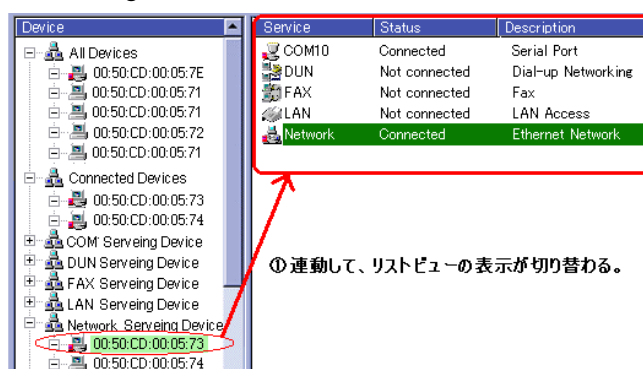


Figure 3.6.2 Selecting a remote device item

3.6.1 All Devices Filtering Display

All Devices displays a list of all discovered Bluetooth remote devices. Select **All Devices** to display all Bluetooth remote devices, below. (All Devices items are displayed each time Bluetooth Service Center is started.)

3.6.2 Connected Devices Filtering Display

Connected Devices displays a list of discovered Bluetooth remote devices with connected services. Select **Connected Devices** to display the connected Bluetooth remote devices, below.

3.6.3 COM Service Devices Filtering Display

COM (Serial Port) Service Devices displays a list of discovered Bluetooth remote devices with COM port service. Select **COM Service Devices** to display the Bluetooth remote devices sorted by COM port service, below.

3.6.4 DUN Service Devices Filtering Display

DUN (Dial-up Networking) Service Devices displays a list of discovered Bluetooth remote devices with DUN service. Click **DUN Service Devices** to display the Bluetooth remote devices sorted by DUN service, below.

3.6.5 FAX Service Devices Filtering Display

FAX Service Devices displays a list of discovered Bluetooth remote devices with FAX service. Click **FAX Service Devices** to display the Bluetooth remote devices sorted by FAX service, below.

3.6.6 LAN Service Devices Filtering Display

LAN Service Devices displays a list of discovered Bluetooth remote devices with LAN service. Click **LAN Service Devices** to display the Bluetooth remote devices sorted by LAN service, below.

3.6.7 Network Service Devices Filtering Display

Network (Ethernet Network) Service Devices displays a list of discovered Bluetooth remote devices with Network services. Click **Network Service Devices** to display the Bluetooth remote devices sorted by Network service, below.

3.6.8 Group Service Devices Filtering Display *(Available in Version 2.0)*

Group Service Devices displays a list of discovered Bluetooth remote devices that are set with group properties. Click a group to display the Bluetooth remote devices that belong to that group, below.

3.7 Remote Device List View

The remote device list view displays a list of remote devices that correspond to the filtering item you selected in the remote device tree view. You can view the list as Large Icons, Small Icons, List or Details. Connected devices are indicated on the list by a connection mark that appears next to the remote device icon.

Name	ClassOfDevice:ID	Status	Address
@2	CoD:000001	Not connected	97:00:11:cd:50:00
TOSHIBA BT-AP	CoD:000000	Not connected	38:00:11:cd:50:00
ToshibaBt	CoD:0c0102	Not connected	94:3e:03:b7:d0:00
NY Server	CoD:0c0102	Not connected	e1:3e:03:b7:d0:00
toahiba	CoD:100240	Not connected	4e:00:11:cd:50:00
Device1	CoD:0c0102	Not connected	97:3e:03:b7:d0:00
ToshibaBt	CoD:0c0102	Not connected	e6:3e:03:b7:d0:00

3.7.1 Remote device list view

The table below describes the meaning of the icons.

No.	Icon	Description
1		Connected
2		Remote device disconnected
3		Remote device connected
4		Ghost (Device no longer exists on list view)

The table below describes the column headings in the details list.

No.	Column Heading	Description
1	Name	Local name of remote device
2	Class:ID	Class ID of remote device
3	Status	Status of remote device (Connected , Not connected , Ghost)
4	Address	Address of remote device

3.8 Remote Service List View

The remote service list view displays a list of registered services for a remote device selected from a filtering item in the remote device tree view. You can view the list as Large Icons, Small Icons, List or Details. Connected devices are indicated on the list by a connection mark that appears next to the remote service icons.

Name	Status	Description
COM1	Not connected	Communications Port (COM1)
COM2	Not connected [c]	Toshiba Bt Port (COM2)
COM3	Not connected [s]	SerialPort
LAN4	Not connected [s]	LANAccessUsingPPP
DUN5	Not connected [s]	DialupNetworking
FAX6	Not connected [s]	Fax
LANE	Connected [c]	Toshiba LAN Emulation(LANE)

Figure 3.7.2 Remote service list view

The table below describes the column headings in the details list.

No.	Column Heading	Description
1	Service	Name of remote service
2	Status	Status of remote service (Connected, Not connected)
3	Description	Type of remote service

The table below describes the meanings of the icons.

No.	Icon	Description
1		Connection mark
2		COM port service not connected
3		COM port service connected
4		DUN service not connected
5		DUN service connected
6		FAX service not connected
7		FAX service connected
8		LAN service not connected
9		LAN service connected
10		Network service not connected
11		Network service connected

4. Bluetooth Monitor

You use Bluetooth Monitor, which appears in the taskbar, to configure the default settings of Bluetooth services and to monitor and control Bluetooth operations. You can use the pop-up menus to start Bluetooth Service Center and perform other functions. The following sections describe the different visuals and functions of Bluetooth Monitor.

4.1 Starting Bluetooth Monitor

To start Bluetooth Monitor, select **Programs**, **Toshiba Bluetooth Utility**, and then **Bluetooth Monitor** from the **Start** menu.

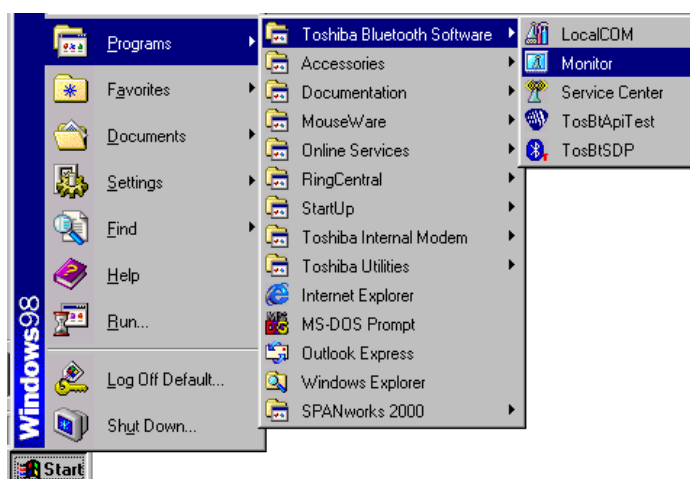


Figure 4.1 Bluetooth Monitor programs menu

4.2 Taskbar Icon

When you start Bluetooth Monitor, the Bluetooth Monitor icon appears in the taskbar. The icon changes according to the connection status, as shown below.

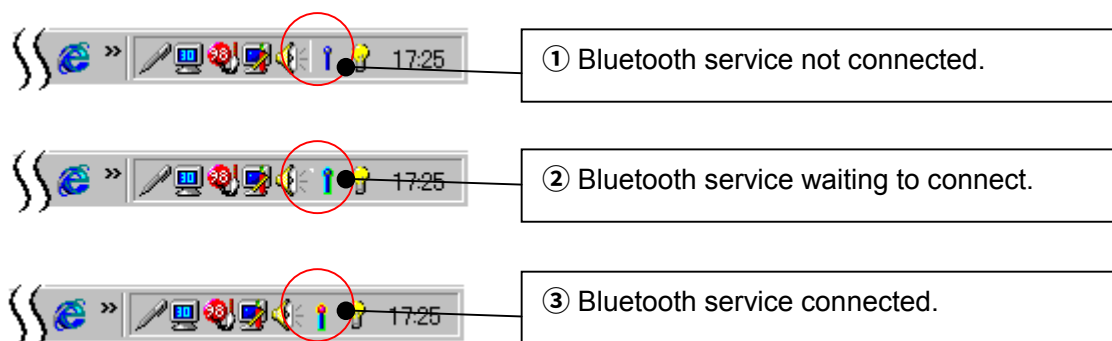


Figure 4.2.1 Taskbar icon

When Bluetooth service is connected, a 3-image animated icon appears.

No.	Icon	Description
1		Connected (3-image animated icon)

4.3 Pop-up Menus

You can use the pop-up menus to operate Bluetooth Monitor. Click the right mouse button to display the main menu and the left mouse button to display the sub-menu.

4.3.1 Main Menu

To display the main menu, shown below, place the cursor over the Bluetooth Monitor icon and press the right mouse button.

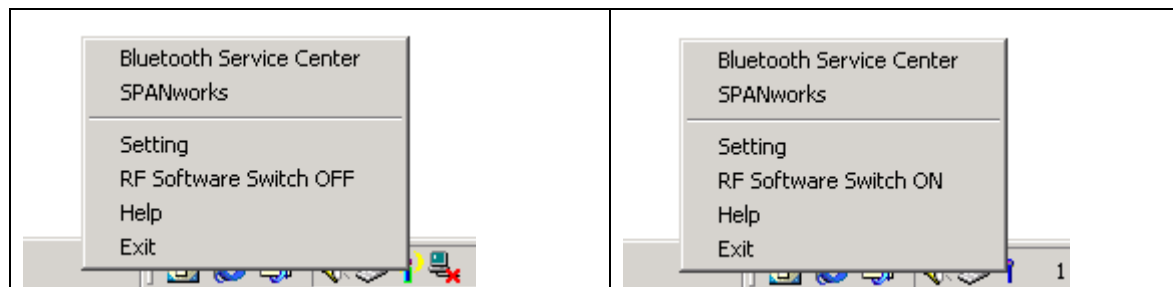


Figure 4.3.1 Bluetooth Monitor main menu

No.	Main Menu Item	Description
1	<u>B</u> luetooth Service Center	Starts Bluetooth Service Center
2	S <u>P</u> ANworks	Opens SPANworks
3	D <u>e</u> v <u>i</u> c <u>e</u> P <u>r</u> o <u>p</u> er <u>t</u> i <u>e</u> s	Displays properties for Bluetooth local device
4	R <u>F</u> Software Switch OFF/ R <u>F</u> Software Switch ON	Switches Bluetooth service on and off
5	H <u>e</u> lp	Opens the Bluetooth Utility User's Guide
6	E <u>x</u> it	Exits Bluetooth Monitor

4.3.2 Sub-Menu

You use the sub-menu to change the User Mode of Bluetooth Service Center from Bluetooth Monitor. To display the sub-menu, shown below, place the cursor over the Bluetooth Monitor icon and press the left mouse button. The current User Mode is indicated by a check mark.

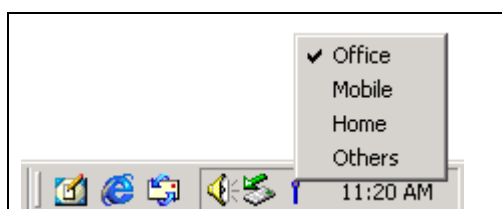


Figure 4.3.2 Bluetooth Monitor sub menu

No.	Sub Menu Item	Description
1	<u>O</u> ffice	User Mode set to Office
2	M <u>o</u> bile	User Mode set to Mobile
3	H <u>o</u> me	User Mode set to Home
4	O <u>t</u> hers	User Mode set to Others

4.3.3 Double Click

You can start Bluetooth Service Center by double-clicking the Bluetooth Monitor icon. If Bluetooth Service Center has already been started, double-click the icon to bring the **Bluetooth Service Center** window to the foreground.

4.4 Properties

To display the **Toshiba Bluetooth Device Properties** dialog box, select **Device Properties** from the Bluetooth Monitor main menu. You can select one of the four property tabs (General, Power Management, Mode, or Link Policy).

4.4.1 General Properties

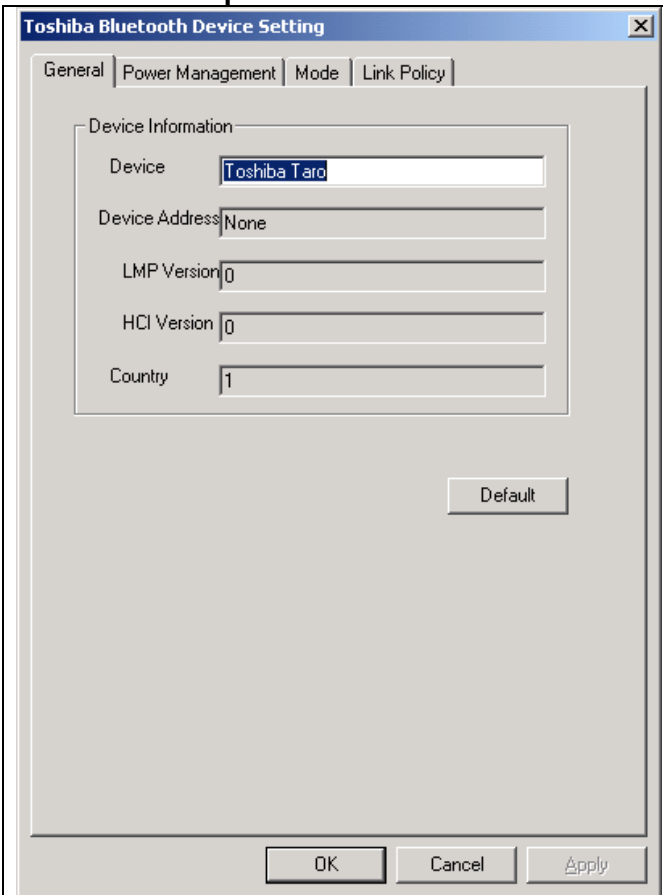
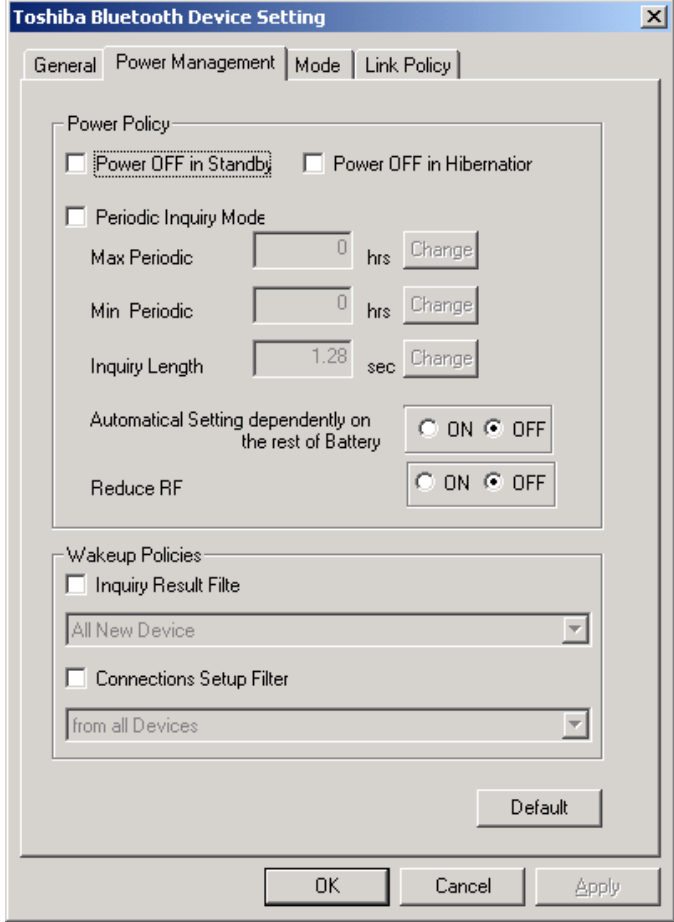
	Device Information - Device Name - Device Address - LMP Version - HCI Version - Country Code
--	---

Figure 4.4.1. General tab

4.4.2 Power Management Properties



Power policy
 Power OFF in Standby
 Power OFF in Hibernation

Periodic Inquiry Mode
 Max Period Length [] hrs
 Min Period Length [] hrs
 Inquiry Length [] sec

Automatic battery shutdown
 ON/OFF

Reduce RF
 ON/OFF

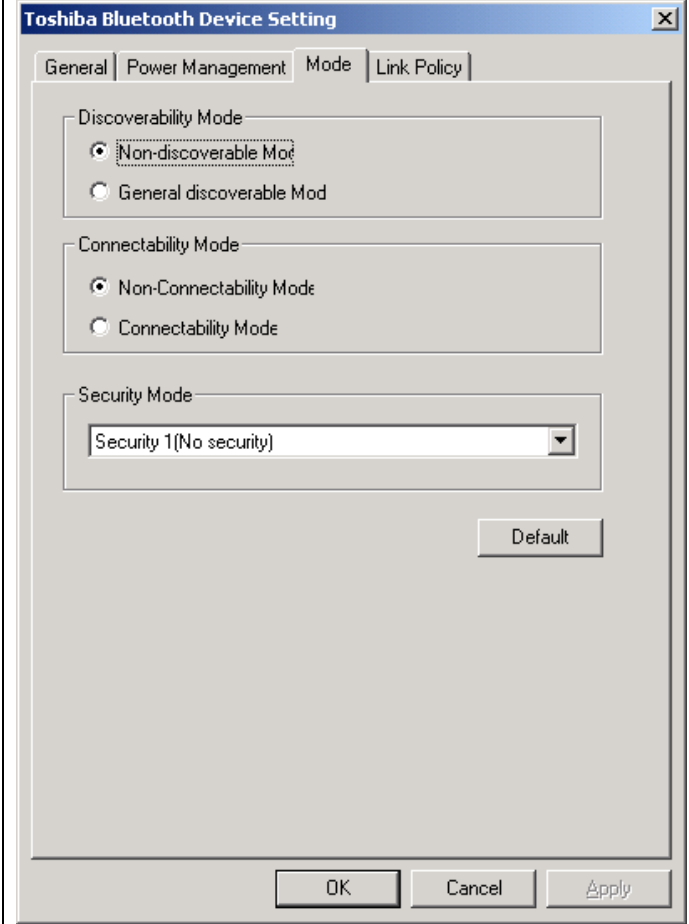
Wakeup Policies
 Inquiry Result Filter
 [Display new devices that respond to the inquiry process]
 [Display devices with a specific device class that respond to the inquiry process]
 [Display devices with a specific device address that respond to the inquiry process]

Connection Setup Filter
 [Allow connection to all devices]
 [Allow connection to devices with specific device class]
 [Allow connection to device with specific device address]

Default button
 Returns all settings to default Bluetooth device settings.

Figure 4.4.2. Power Management tab

4.4.3 Mode Properties



Discoverability Mode

☒ Non-discoverable Mode

☐ General discoverable Mode

Connectability Mode

☒ Non-Connectability Mode

☐ Connectability Mode

Security Mode

Security 1 (No security)

Default

OK Cancel Apply

Discoverability Mode

☒ Non-discoverable Mode

☐ General Discoverable Mode

Connectability Mode

☐ Non-connectable Mode

☒ Connectable Mode

Security Mode

[Security Mode 1 (Non-secure mode)]

[Security Mode 2 (Service level enforced security)]

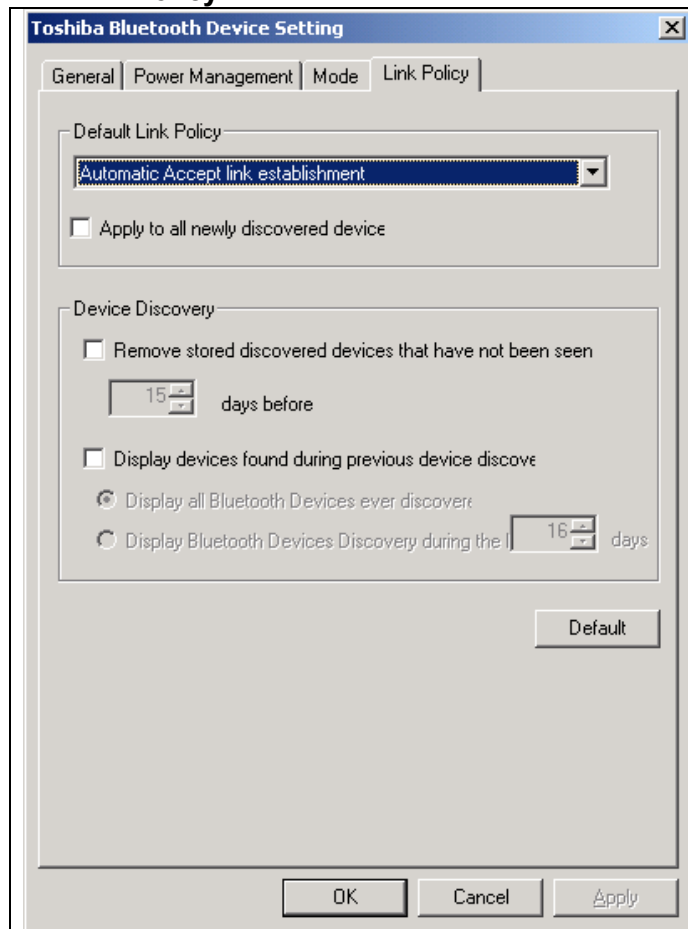
[Security Mode 3 (Link level enforced security)]

Default button

Returns all settings to default Bluetooth device settings.

Figure 4.4.3. Mode tab

4.4.4 Link Policy



Default Link Policy

[Reject attempt to establish link]
[Prompt before accepting link establishment]
[Automatically accept link establishment]

Apply to all newly-discovered devices

Device Discovery

Remove stored discovered devices not found for the past [] days
Display previously-discovered devices
● Display all Bluetooth Devices ever discovered
○ Display Bluetooth Devices discovered during the past [] days

Default button

Returns all settings to default Bluetooth device settings.

Figure 4.4.4. Link Policy tab

5. Bluetooth LocalCOM

You can use Bluetooth LocalCOM to create and manage local COM ports for use with Bluetooth. Its main functions are to create server or client services to meet the needs for local COM ports when using Bluetooth, and to configure service profiles. You can also use it to change the names of the service profiles or services and delete unnecessary local COM ports. You can also access the **LocalCOM** window from the **Bluetooth Service Center** window. The different windows and functions of Bluetooth LocalCOM are described below.

5.1 Starting Bluetooth LocalCOM

To start Bluetooth LocalCOM, double-click the LocalCOM icon in the Control Panel or select **Start** on the **Properties** dialog box.

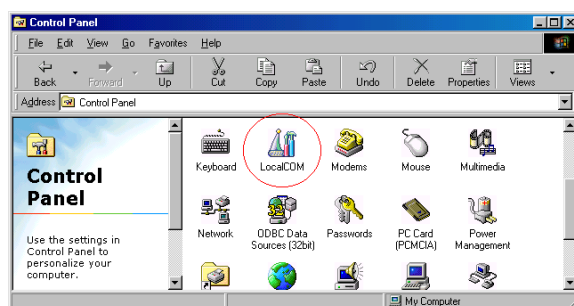


Figure 5.1. 1 Control panel

5.2 LocalCOM Window

When LocalCOM is started, the LocalCOM window, shown below, appears.

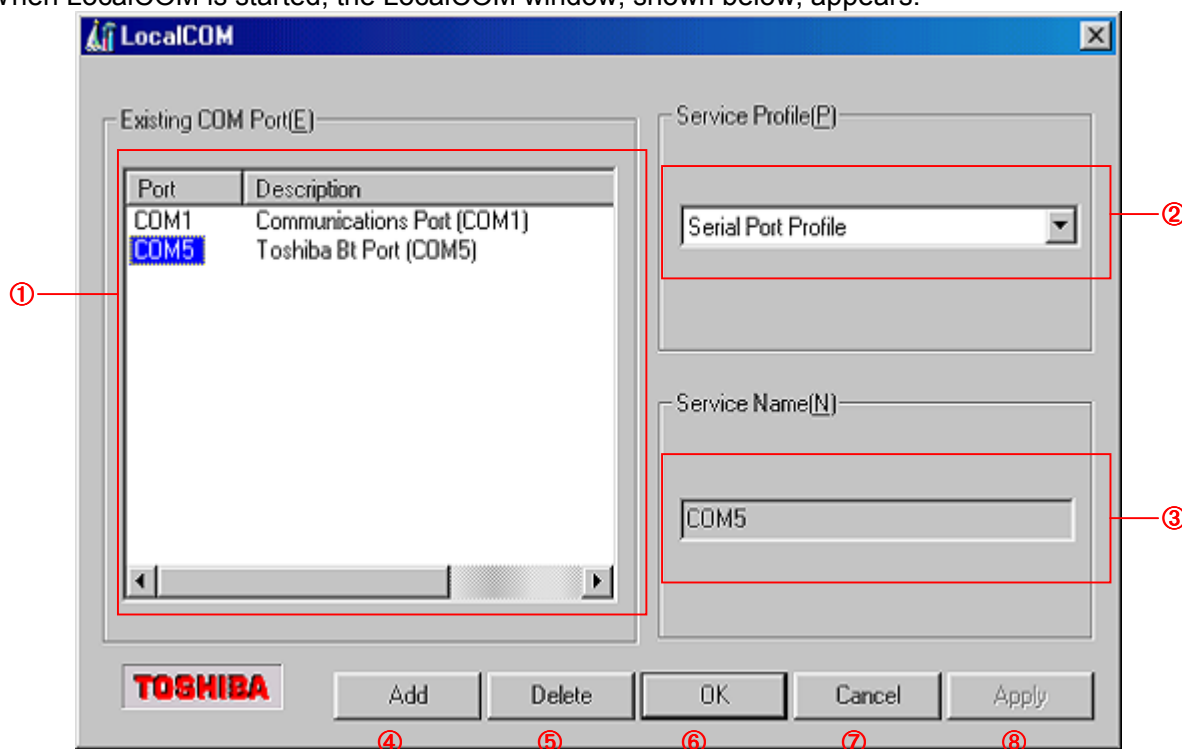


Figure 5.2.1 LocalCOM window

① Existing COM Port

This box displays a list of existing COM port devices recognized by the system device manager.

② Service Profile

You use this box to change the service profile for a Bluetooth local COM port. To display the currently-set service profile, select the Bluetooth local COM port from the **Existing COM Port** box. To change the setting, select the required service profile from the pull-down menu. You cannot change the service profile for a COM port that is currently in use,

③ Service Name

You use this box to change the service name of the Bluetooth local COM port. To display the currently-set service name, select the Bluetooth local COM port from the **Existing COM Port** box. This name is set when the service is created. To change the name, type the new name in the input field. You cannot change the service name for a COM port that is currently in use.

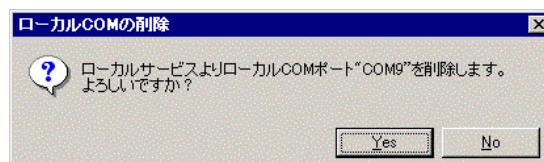
④ Add button

You use this button to add a Bluetooth local COM port to the COM port list. Click this button to display the LocalCOM Setup Wizard. Follow the instructions in the LocalCOM Setup Wizard to create a local COM port for use with Bluetooth applications. See **5.3 LocalCOM Setup Wizard** for more information on using the LocalCOM Setup Wizard.

⑤ Delete button

You use this button to delete a Bluetooth local COM port from the **Existing COM Port** box. You can only delete local COM ports created and managed by the LocalCOM utility. Click this button to display the deletion confirmation message below. You cannot delete COM ports that are currently in use.

Figure 5.2.2 Deletion confirmation message



⑥ OK button

Click this button after making any changes to the COM port service profile or service name.

⑦ Cancel button

Click this button to cancel any changes made to the COM port service profile or service name.

⑧ Apply button

Click this button to immediately apply any changes made to the Bluetooth local COM port service profile or service name while keeping the **LocalCOM** window open.

5.3 LocalCOM Setup Wizard

From the **LocalCOM** window, click **Add** to display the LocalCOM Setup Wizard shown below. Select the type of service, either server or client, you want to create for the local COM port. (**Create LocalCOM Server** is selected as default when LocalCOM Setup Wizard is opened.)

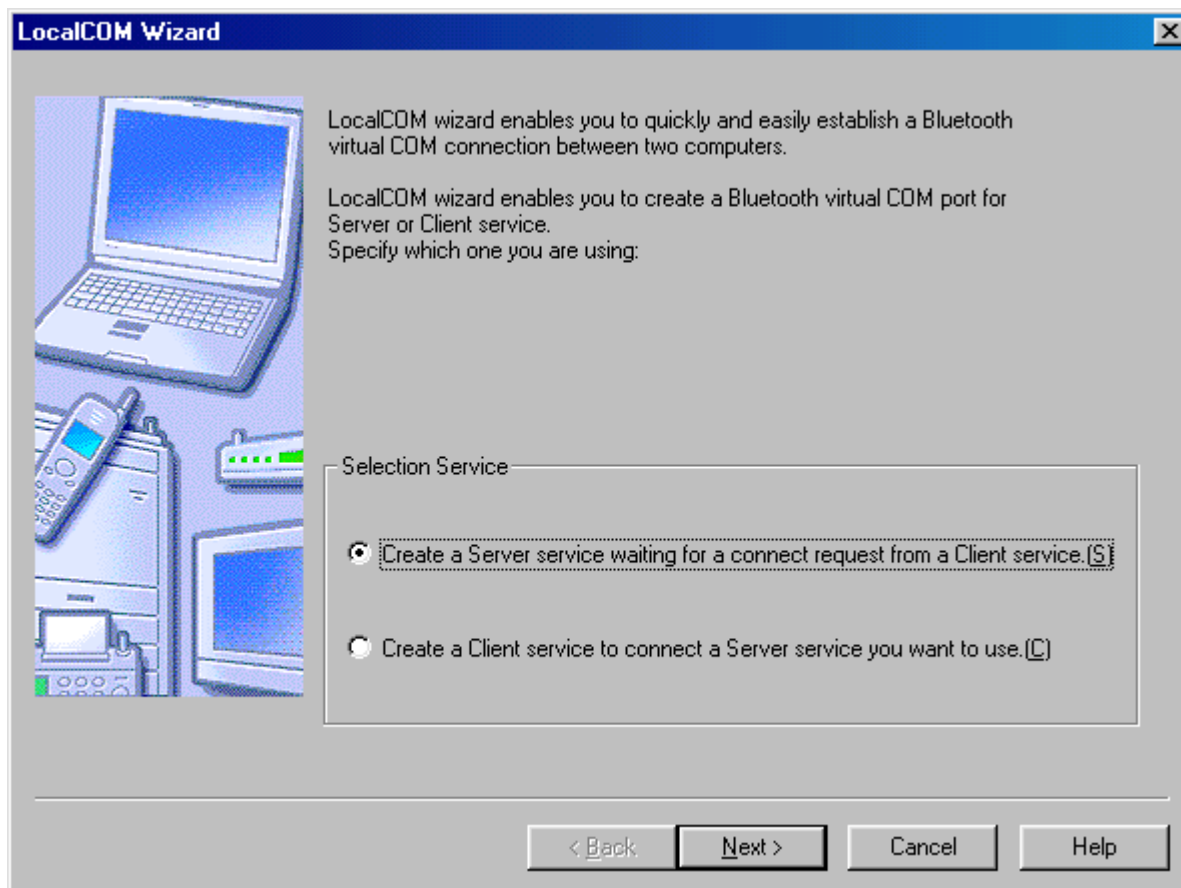


Figure 5.3.1 LocalCOM Setup Wizard

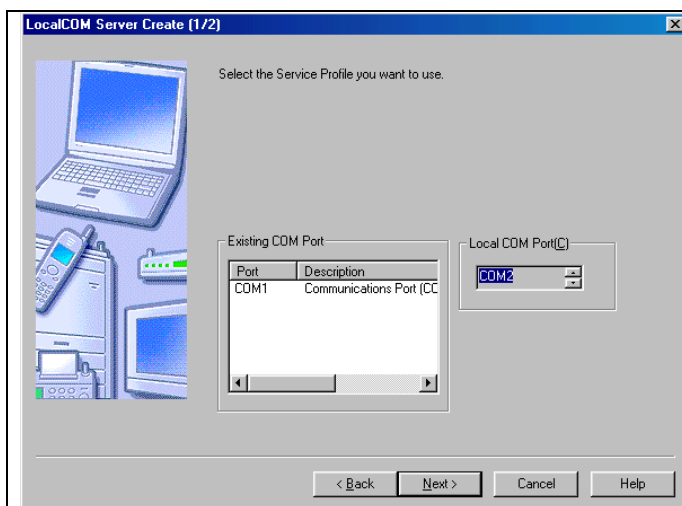
The table below describes the functions of the buttons used in LocalCOM Setup Wizard.

No.	Wizard Buttons	Function
1	Back	Displays previous dialog box
2	Next	Displays next dialog box
3	Finish	Closes window after all settings are complete
4	Cancel	Closes window without completing settings
5	Help	Opens Bluetooth Utility User's Guide

5.4 Creating a LocalCOM Server

To create a server that functions as the client destination during connection, select **Create LocalCOM Server** from the LocalCOM Setup Wizard and click **Next**. The **Create LocalCOM Server (1/2)** dialog box will appear, as shown in Figure 5.4.1.

5.4.1 Create LocalCOM Server (1/2)



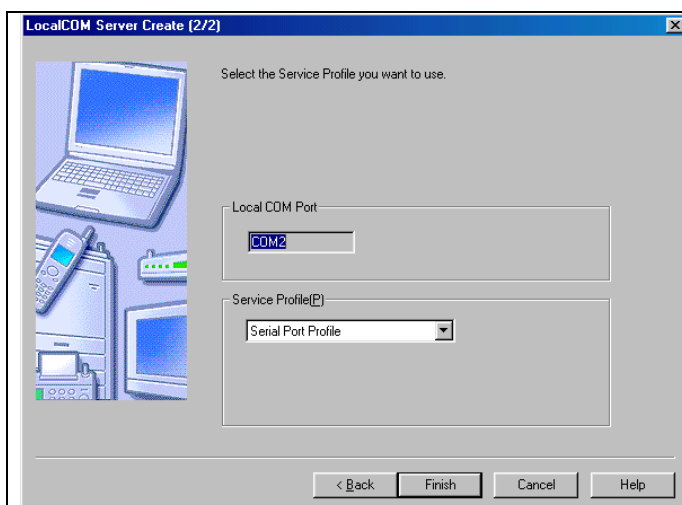
Procedure

Follow the on-screen instructions to create a LocalCOM server.

- ① Assign a name for the new local COM port.
- ② Click **Next** to continue to the next dialog box.

Figure 5.4.1 Create LocalCOM Server (1/2) dialog box

5.4.2 Create LocalCOM Server (2/2)



Procedure

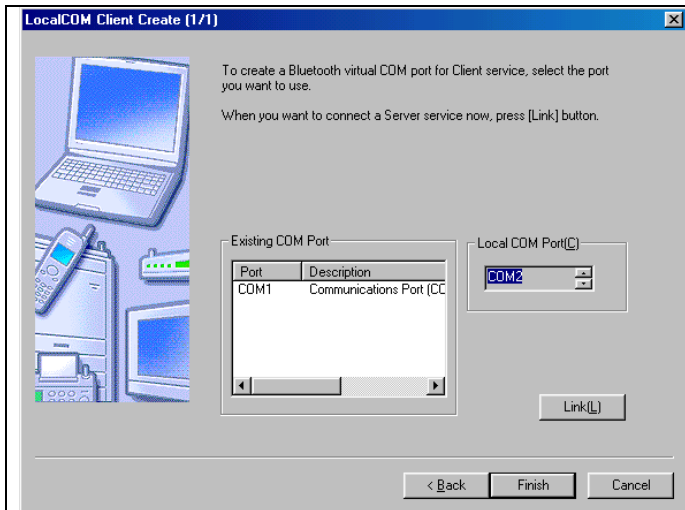
- ① Assign a LocalCOM port service profile from the **Service Profile** pull-down menu.
- ② Confirm that the information on the screen is correct and click **Finish**, to create the local COM port and local service and exit the wizard.

Figure 5.4.2 Create LocalCOM Server (2/2) dialog box

5.5 Creating a LocalCOM Client

To create a client that connects to a server, select **Create LocalCOM Client** from the LocalCOM Setup Wizard and click **Next**. The **Create LocalCOM Client** dialog box will appear, as shown in Figure 5.5.1.

5.5.1 Create LocalCOM Client



Procedure
Follow the on-screen instructions to create a LocalCOM client.

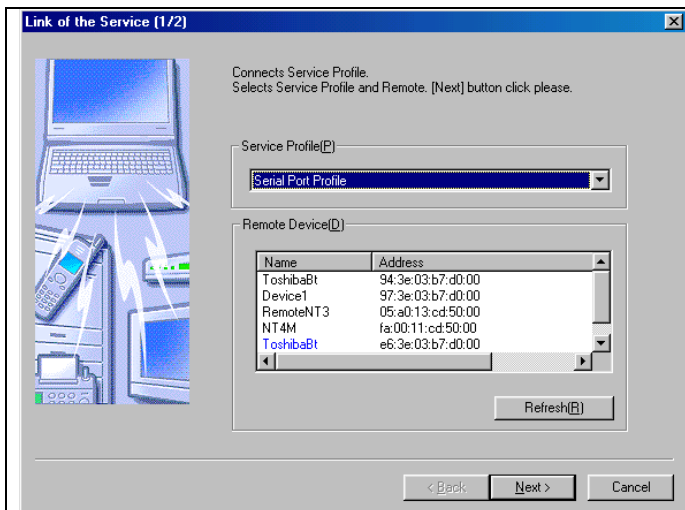
- ① Assign a name for the new local COM port.
- ② Confirm that the information on the screen is correct and click **Finish** to create the local COM port and exit the wizard.
- ③ Click **Connect** to create the local COM port and connect to a remote service.

Figure 5.5.1 Create LocalCOM Client dialog box

5.6 Connecting to a Remote Service

To connect to a remote service once a client is created, click **Connect** in the **Create LocalCOM Client** dialog box. The **Service Connection** dialog box will appear, as shown in Figure 5.6.1.

5.6.1 Service Connection (1/2)

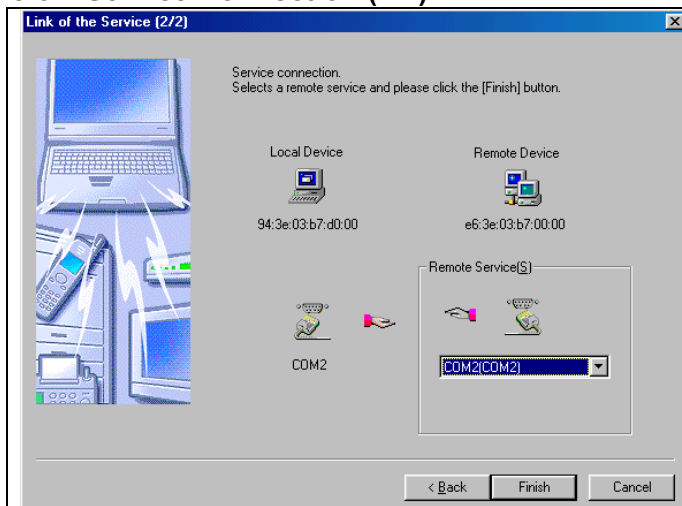


Procedure
Follow the on-screen instructions to connect to a remote service.

- ① From the remote service list select a remote service that matches the profile conditions.
- ② Click **Next** to continue to the next dialog box.

Figure 5.6.1 Service Connection dialog box

5.6.2 Service Connection (2/2)



Procedure

- ① From the pull-down menu, select the desired remote service.
- ② Confirm that the information on the screen is correct and click **Finish** to connect to the remote service and exit the wizard.

Figure 5.6.2 Service Connection dialog box