

# Bluetooth™

## User's Guide

### Getting Started

Please be sure to read this User's Guide before using the Bluetooth

- Please be sure to read "Safety Precautions" in this document since these describe important safety issues.
- After reading this document, keep it in a convenient place for future reference.
- The screens used in this User's Guide are based on the Microsoft® Pocket PC 2002,2003 operating system.

- Please read the following information about equipment license displays.  
This equipment has received technology standard conformity certification as radio equipment for a low power data communication system radio station based on the Radio Regulation of Japan. A radio license is not required to operate this equipment; however, performing the following could constitute a violation of the law:

- Modifying or changing the features or functions of the original design.
- Removing the certification label on the reverse side of the equipment.

- Trademarks

Bluetooth is a trademark owned by its proprietor and used by Toshiba under license.

Microsoft, ActiveSync, Outlook, Pocket Outlook, Windows, Windows NT, the Windows logo, and the MSN logo are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

The official name of Windows is Microsoft Windows Operating System.

CompactFlash is a registered trademark of SanDisk Corporation in the United States.

The names of products contained herein are used as either the trademark or registered trademark of their respective companies.

Signs	Meaning of signs
 Warning	This indicates a potentially hazardous situation, which could result in death or serious injury <sup>1</sup> if you do not follow instructions.
 Caution	This indicates a potentially hazardous situation, which if not avoided, could result in minor injury <sup>2</sup> or property damage <sup>3</sup>

### Safety Precautions

- Please be sure to read "Safety Precautions" outlined here carefully before using the Bluetooth Card and ensure that you are aware of the correct handling procedures.
  - The precautions stated here provide essential information for the protection of the user and others from possible injury and property damage, and essential information on the safe handling of the product you have purchased.
  - Please check that you fully understand the definition of the following messages (signs and graphical symbols) before going on to read the text, and always follow the instructions.
- Explanation of signs

- 1: Serious injury refers to an injury that leaves some after-effects, and requires hospitalization or long-term treatment, such as blindness, injuries, burns (high or low temperature burns), electric shock, fractures, or poisoning.
- 2: Minor injury refers to an injury that does not require hospitalization or long-term treatment, such as light burns, or electric shock.
- 3: Property damage refers to extensive damage of property, such as a structure, household effects, livestock, or pets.

■ Explanation of symbols

■ Limitation of liability

- Toshiba Corporation is in no way liable for any damage resulting from earthquakes, lightning, wind, flood; or fire, actions on the part of a third party, or other accidents beyond the control of Toshiba Corporation; intentional acts, negligence or misuse on the part of the user, or any usage under abnormal conditions.
- Toshiba Corporation is in no way liable for any damage, including but not limited to change or loss of stored data, loss of business profit, loss of earnings, interruption of business, or lost communication opportunities that are caused by usage or unusability of this product.
- Toshiba Corporation is in no way liable for any damage resulting from failure to comply with the contents of this user's guide.
- Toshiba Corporation is in no way liable for any damage resulting from malfunction due to use with connection devices or software other than those provided by Toshiba Corporation.
- Toshiba Corporation cannot guarantee any data recorded in memory devices, such as internal memory and memory cards, regardless of the cause of damage or malfunction.

<b>Symbols</b>	<b>Explanation of symbols</b>
 DO NOT	This indicates an action that you must not do. The prohibited action is described in the symbol or adjacent picture or text
 DO	This indicates an action that you must do. The action is described in the symbol or adjacent picture or text.

■ Usage conditions

The Bluetooth Card was not developed or produced for use with equipment in systems that directly support the medical welfare of individuals<sup>1</sup> or systems that are critical for the maintenance of public welfare and safety<sup>2</sup>. Do not use the Bluetooth Card for these purposes.

- 1: These include life-support systems, surgery room equipment, and other medical devices.
- 2: These include the main equipment control systems and safety protection systems at nuclear power facilities, other critical safety systems, fleet transportation operating control systems, and air traffic control systems.

Do not disassemble, modify or try to service this product yourself.

This may cause injury. Unapproved changes or modifications to this product could void your authority to operate this product. Please contact the dealer from whom you purchased this product and request repair service.

Do not use this product in areas where the use of electrical devices is prohibited, such as on board an aircraft and in a hospital.

If you are uncertain whether electrical devices are prohibited, please consult the proper authorities and follow all instructions. Usage in prohibited areas can cause an accident due to radio interference with equipment such as aviation and medical equipment.

Failure to maintain this distance can cause a malfunction of the pacemaker due to radio interference.

Do not use the Bluetooth Card near an automated controlling device, such as an automatic door or fire alarm.

Failure to do so can cause an accident due to radio interference with the automated controlling device.

Immediately discontinue use of the Bluetooth Card if it causes radio interference with other devices. Continued use of the Bluetooth Card can cause other devices to malfunction and thereby create an accident.

Keep the product out of the reach of children, as it may be accidentally swallowed or cause injury.

## **Tips for Safe Handling**

- The Bluetooth Card uses radio waves to communicate with other Bluetooth devices. Therefore, the communications performance of the card may change and nearby electrical devices may experience radio interference depending on the location, orientation of the card, and operating environment.
- Do not use the Bluetooth in the vicinity of a microwave oven. The radio interference from a microwave oven can adversely affect the communications performance of the card or cause communications errors.
- Do not use the Bluetooth in the vicinity of a wireless local area network (LAN). Radio interference can adversely affect the communications performance of the card or cause communications errors.
- Do not use the Bluetooth atop a metallic surface or adjacent to metallic objects, as this can adversely affect the communications performance of the card.
- Do not use the Bluetooth while the Toshiba Pocket PC is inside your pocket or next to your body, as this can adversely affect the communications performance of the card.
- Because the Bluetooth uses radio waves to communicate with other Bluetooth devices, the data sent and received might be intercepted by a third party. Please use caution. You can encrypt the data for increased confidentiality and protection. (Enable Encryption in the Security Mode of the security settings.) Toshiba Corporation is in no way liable for losses resulting from the interception of sent or received data.
- Do not turn off the Bluetooth power or turn off the power of your Toshiba Pocket PC immediately after starting the Bluetooth (within 5 seconds) or when you are using the Bluetooth to communicate. The Bluetooth may not work properly.

The radio frequency band used by the Bluetooth Card is shared with specified low power radio stations (hereafter, "other stations") not subject to licensing and private radio stations for mobile systems subject to licensing for use in production lines at plants that produce microwave ovens and other industrial, scientific, and medical devices.

1. Before using this product, make sure that there are no "other stations" operating nearby.
2. If radio interference from this product is adversely affecting "other stations," immediately change your location or discontinue use of the product to avoid any further interference.

RF Exposure Warning Statement:

IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. This device has not been investigated for FCC RF exposure compliance for portable configuration with any other antenna or transmitter except for the Bluetooth transmitter installed by Toshiba Corp. CF Card Slot or SD Card Slot can not be used for adding any other transmitter.

# 1. Major Specifications

The Toshiba Pocket PC supports these Bluetooth services:

- **COM service (Serial Port Profile)**  
This service enables you to connect to a computer via a serial port to send and receive data. COM service is also used when connecting to a computer with ActiveSync and when chatting with other Toshiba Pocket PCs.
- **FTP service (File Transfer Protocol Profile)**  
This service enables you to transfer files to and from a device with FTP service, such as a computer.
- **DUN service (Dial-up Networking Profile)**
- **LAP service (LAN Access Profile)**
- **OPP service (Object Push Profile)**  
This service enables you to connect to another Toshiba Pocket PC or cell phone and exchange address books and owner information.

**Note**

Depending on the specifications of the device to which you are connected, sent and received data may not be properly stored in the respective device.

The data formats and maximum size of receiving messages are as follows.

Contact (address book) Business card (owner information)	vCard format (vCard2.1)	Other than memo... 1,022 characters Memo..... Approx. 32,700 characters <sup>1</sup>
Schedule	vCalendar format (vCalendar1.0)	Subject..... 4,096 characters Location..... 1,023 characters Category... 1,023 characters Attendees..... 1,022 characters (per person) Memo..... Approx. 2,500 characters
Task	vToDo format	Subject..... 4,095 characters Category... 1,023 characters Memo..... Approx. 7,600 characters

<sup>1</sup>: Approx. 7,600 characters for Toshiba Pocket PC Pocket PCs operating Microsoft® Windows® for Pocket PC (e550 that has not been upgraded).

## Major specifications

Profiles supported by Toshiba Pocket PC	Serial Port Profile Dial-up Networking Profile Object Push Profile File Transfer Profile LAN Access Profile
Bluetooth specification	V1.1 • Not compatible with Bluetooth V1.0B devices.
Transmit power class	Power class 3
Communications range	10 m (maximum, unobstructed) • The connection speed of the Bluetooth Card varies depending on the location and orientation of the card, the communications range, the operating environment, the performance of the connected device, and other factors.

The connection speed of the Bluetooth Card varies depending on the location and orientation of the card, the communications range, the operating environment, the performance of the connected device, and other factors. The Bluetooth Card cannot be used to communicate with devices for which it is unable to confirm **the appropriate Bluetooth Service.**

## 2. Updating the Bluetooth Application

Follow the procedure below to update the Bluetooth application program from the CD-ROM or Web supplied with the Bluetooth Card. The application program needs to be installed only once.

Connect your Toshiba Pocket PC to a computer with ActiveSync, using the cradle or connection cable.

See "Connecting to a Computer" in your Toshiba Pocket PC user's guide.

Place the CD-ROM supplied with the Bluetooth Card in the CD-ROM drive of your computer.

Using Internet Explorer or a similar application, open the **Bluetooth** folder in the CD-ROM drive and double-click the **setup.exe** file.

Follow the instructions on the screen of the computer.

After installing the program to your Toshiba Pocket PC, enter an FTP password on the FTP password setup screen, then tap **OK**.

The password can be a maximum of 16 alphanumeric characters.

Follow the instructions on the reset confirmation screen.

After resetting your Toshiba Pocket PC, you will be able to use the Bluetooth application program.

The Bluetooth Settings, Bluetooth Chat, Bluetooth FTP, and Bluetooth Connection icons now appear on the Programs screen of your Toshiba Pocket PC.

### Note

When deleting the Bluetooth application program from your Toshiba Pocket PC, first remove the Bluetooth Card from the Card Slot and reset the Toshiba Pocket PC, and then delete the program.

The following types of authentication can be used with a Bluetooth connection.

Turn off the power of your Toshiba Pocket PC.

Turn on the power of your Toshiba Pocket PC.

The Today screen appears, Bluetooth Settings starts soon thereafter, and the Bluetooth icon appears on the command bar at the bottom of the screen.

[insert BT icon here] (Bluetooth icon)

## 3. Starting Bluetooth Settings

Turn on the power of your Toshiba Pocket PC and turn on Bluetooth.

Tap Bluetooth Icon.

When using Bluetooth Settings for the first time, or when a remote device (connected partner) is deleted, the screen shown at the right appears. Tap **OK**.

## 4. Bluetooth Environmental Settings

Follow the procedure below to set the environmental settings.

Security settings (Step 3)

Setting the device name of My Device (Step 4)

Once these settings are made, the setting information is stored. If you want to use the previous settings, the settings do not need to be changed.

You can also display the Bluetooth Settings screen by tapping **Start > Programs > Bluetooth Settings**.

The Bluetooth Settings screen appears.

Tap **Options** on the command bar to display the Options menu.

Tap **Security Settings** on the Options menu to display the Change Security Setting screen.

To change the security setting, tap the desired security setting and **OK**.

The selected radio button indicates the currently selected security setting.

Tap here to display the advanced settings for the selected security setting.

Tap here to cancel this operation and close the screen.

Tap here to apply the selected security setting and close the screen.

You can select from four security settings: Office, Mobile, Home, and Other. The default setting is Home.

#### ■ Advanced Settings

To change an advanced setting, select the desired setting and tap **OK**.

The selected radio button or checked box indicates the currently selected setting.

Tap here to return to the default settings.

Tap here to cancel this operation and return to the Change Security Setting screen.

Tap here to apply the selected settings and return to the Change Security Setting screen.

The default settings are as follows.

	<b>Discoverability Mode</b>	<b>Connectability Mode</b>	<b>Security Mode</b>	<b>Encryption</b>
<b>Office</b>	Discoverable	Connectable	Security On	Yes
<b>Mobile</b>	Non-discoverable	Non-connectable	Security On	Yes
<b>Home</b>	Discoverable	Connectable	Non-secure	No
<b>Other</b>	Discoverable	Connectable	Security On	Yes

In the default setting for Home, the Security Mode is set to Non-secure and, therefore, unspecified devices may be able to connect to My Device. It is recommended that you set the Security Mode to Security On.

If you want to set the Connectability Mode to Non-connectable and you are operating your Toshiba Pocket PC in an environment in which there are three or more operating Bluetooth devices, you should also set the Discoverability Mode to Non-discoverable.

#### Tap the **Options** menu and **My Device**.

The Device Information screen for My Device appears.

To change the name of the device, enter the new name in the Device Name box and tap **OK**.

The default device name is Toshiba BT.

The device name can be a maximum of 248 alphanumeric characters.

If the device name exceeds 248 alphanumeric characters, an error message appears.

You can change the name of the device here.

Tap here to cancel this operation and close the screen.

Tap here to apply the device name setting and close the screen.

The Bluetooth environmental settings are now complete.

Refer to the following for additional operations.

To use COM service

To use DUN/LAP service

To use PAN service

To use OPP service

To use FTP service

This information cannot be changed.

## 5. Preparing to Connect with Bluetooth

Follow the procedure below to make preparations for a Bluetooth connection.

Search for peripheral devices (Step 2)

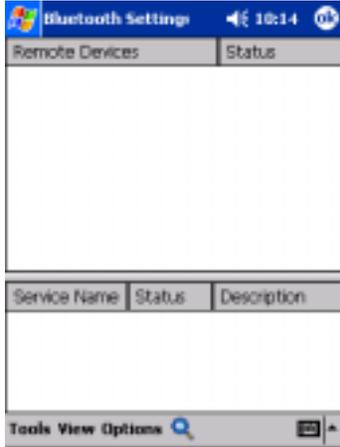
Bluetooth authentication and service update (Step 3)



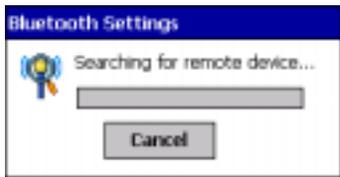
When using Bluetooth Settings for the first time, or when a remote device (connected partner) is deleted, the screen shown at the right appears. Tap **OK**.



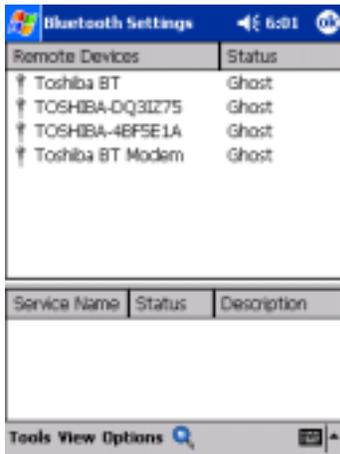
You can also display the Bluetooth Settings screen by tapping **Start > Programs > Bluetooth Settings**. The Bluetooth Settings screen appears.



Tap the Bluetooth Icon on the command bar, or tap the **Tools** menu and **Search for Peripheral Devices**. My Device searches for Bluetooth devices in the vicinity while a message is displayed on the screen indicating that My Device is searching for peripheral devices.



Types of displayed devices  
(Devices selected using Filter in the View menu.)



A maximum of 255 devices can be displayed.  
All discovered devices are displayed in the device list of the Bluetooth Settings screen.  
It may take several minutes to complete the device search.

Icons and device status displayed in the device list



..... This device is connected.



..... This device was discovered.



..... This device was discovered and the connection is registered.



..... This device is a ghost.



..... This device is a ghost and the connection is registered.

Connected ..... This device is connected.

Discovered ..... This device was discovered during the search for peripheral device and is believed to be connectable. (A connection is permitted.)

Ghost .... This device was previously discovered, but is no longer found during the search for peripheral devices.

Tap and hold on the name of the device to which you want to connect, then tap **Refresh** on the popup menu.



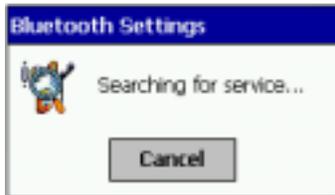
Now you are prepared to connect with Bluetooth.

It may take several minutes to complete the service update.

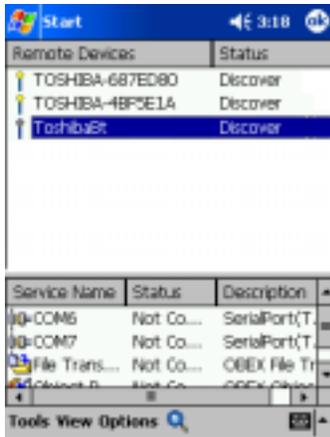
A message is displayed on the screen indicating that the service information is being updated.



Enter the Bluetooth passkey (PIN Code) within 20 seconds and tap **OK**.  
 The Bluetooth passkey can be a maximum of 16 alphanumeric characters. Depending on the remote device, the Bluetooth passkey might be a fixed value with a limit on the number of digits, so be sure to confirm these conditions.  
 The Bluetooth Authentication screen appears on My Device.  
 If the Security Mode on either My Device or the remote device is set to Security On, authentication is performed to confirm the remote device when connecting.  
 If either device has already been authenticated or the Security Mode on either My Device or the remote device is set to Non-secure, the Bluetooth Authentication screen does not appear.



The updated service information for the selected device is displayed in the service list.



## 6. Using COM Service

### Establishing an ActiveSync connection with a computer

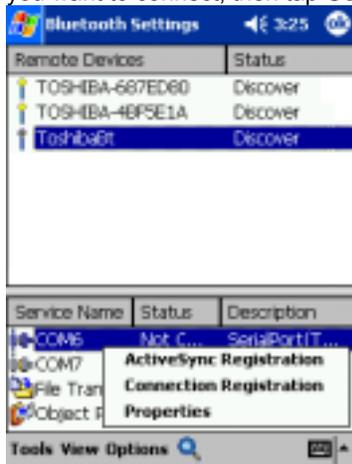
This section explains how to use COM service to connect to a computer.



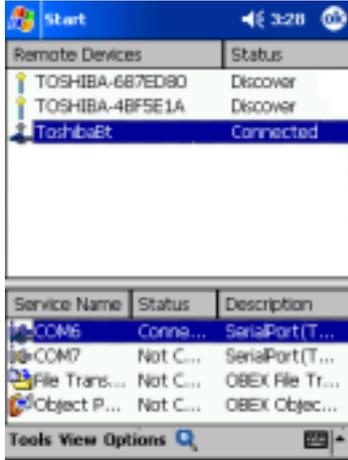
#### Preparations

- The computer to which you want to connect must be Bluetooth enabled and have ActiveSync installed.
- Follow the operations below.
  - Start Bluetooth Settings.
  - Set the Bluetooth environmental settings.
  - Prepare to connect with Bluetooth.

From the service list on the Bluetooth Settings screen, tap and hold on the name of the COM service to which you want to connect, then tap **Connection Registration** on the popup menu.



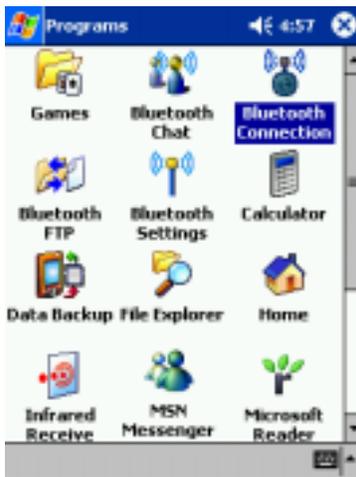
When the connection registration is complete, the device and service icons change to registered connection icons. The device icon changes to [insert device icon here].



Tap OK.  
The screen closes and the Today screen appears.

From the computer, set the port that you will use when you are connecting with Bluetooth.  
The computer is now ready to connect.  
This operation may vary depending on the computer. Please refer to the user's guide supplied with your computer for more information.

Tap **Start > Programs > Bluetooth Connection**.

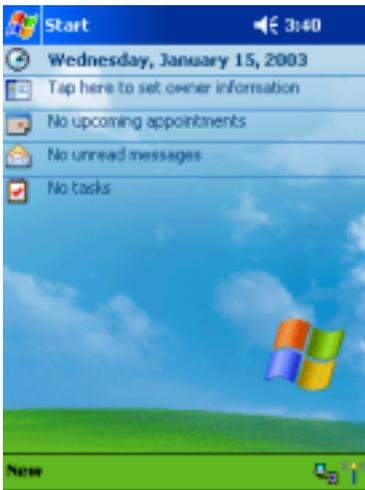


Your Toshiba Pocket PC connects to the computer.



Tap  icon.  
 icon is displayed on the command bar of the Today screen, indicating that the connection with the

computer is complete.



When the connection is complete, the Programs screen reappears.

You are now connected to a computer.

When ActiveSync is finished, the Bluetooth connection is terminated.

Note

If the connecting computer is registered in My Device as Desktop Computer, Server Computer, or Laptop Computer in Step 1 above, you can also connect to that computer by replacing Steps 4 and 5 above with the steps below.

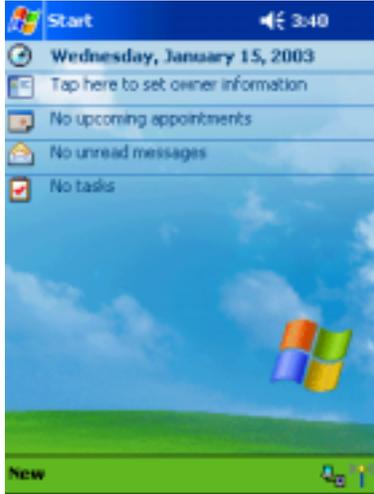
Tap and hold on [insert BT icon here] on the command bar of the Today screen.

The Bluetooth menu appears.



Tap **Execute ActiveSync** on the Bluetooth menu.

[insert connect icon here] is displayed on the command bar of the Today screen, indicating that the connection with the computer is complete.



### Starting Bluetooth Chat

This section explains how to use COM service to “chat” with other Toshiba Pocket PCs.

Preparations

**Follow the operations below.**

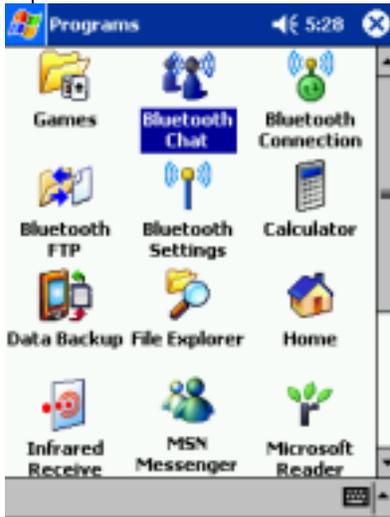
Start Bluetooth Settings. (See page 21.)

Set the Bluetooth environmental settings. (See page 22.)

Prepare to connect with Bluetooth. (See page 27.)

On both My Device and the remote device Toshiba Pocket PC, tap **Start > Programs > Bluetooth Chat**.

Tap here.



On My Device, tap the **Tools** menu and **Start Bluetooth Chat**.

On the remote device, tap the **Tools** menu and **Start Bluetooth Chat**.



Perform Step 3 only after Step 2 is completed. The connection between the devices may not be established if both steps are performed at the same time.

Enter a text message and tap **Send**.

Do not tap the message display screen. This causes the next messages to be displayed at the tapped point on the screen.



On both My Device and the remote device, tap the **Tools** menu and **End Bluetooth Chat**.

The Bluetooth connection is terminated.

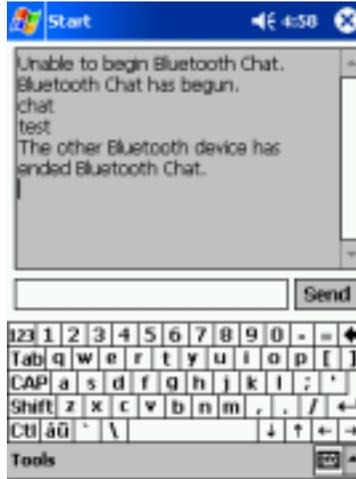
Tap [insert x icon here] to close this screen.

Ending Bluetooth Chat

Note

During Bluetooth Chat, do not turn off the power of the Toshiba Pocket PC or remove the Bluetooth Card. Doing so will not properly communicate to the remote device that you are ending Bluetooth Chat and thereby cause a chat error on that device.

Toshiba Pocket PC receiving a message      Toshiba Pocket PC sending a message



## 7. Using DUN/LAP Service

Preparations

To connect to a Bluetooth-enabled modem, tap **Start > Settings > Connection tab > Connections > Change (Internet Settings) > Modem tab > Add**. The **Make New Connection** screen appears. From the **Select Modem** list, select **Bluetooth Card**.

Follow the operations below.

Start Bluetooth Settings. (See page 21.)

Set the Bluetooth environmental settings. (See page 22.)

Prepare to connect with Bluetooth. (See page 27.)

### Connecting to the Internet

This section explains how to use DUN service to connect to the Internet by connecting to a modem or cell phone.

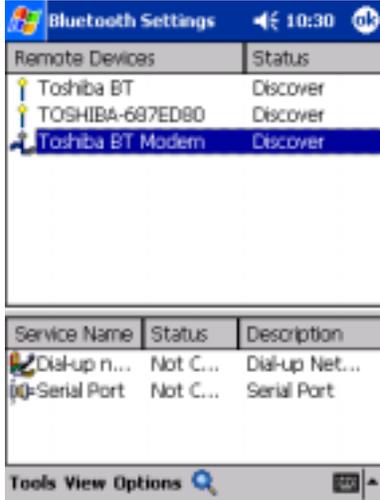
LAP service uses the same method of connection.

Note

For operations of the modem or cell phone, please refer to the user's guide of the respective device.

Any dial-up number can be used for LAP service. Select and enter the desired number.

Internet



From the service list on the Bluetooth Settings screen, tap and hold on the name of the DUN or LAP service to which you want to connect, then tap **Connection Registration** on the popup menu.

When the connection registration is complete, the device and service icons change to registered connection icons.

The device icon changes to [insert device icon here].

Tap [insert ok icon here].

The screen closes and the Today screen appears.

For further operations, please refer to "Accessing the Internet" and "Sending and Receiving E-mail" in the user's guide of

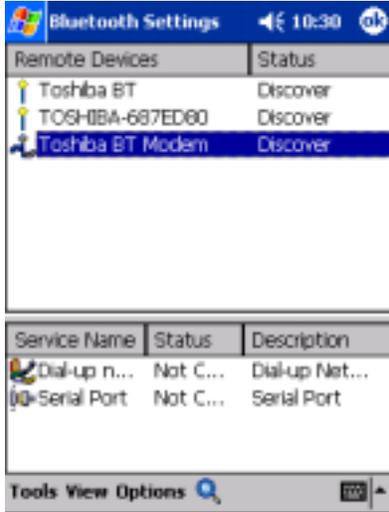
your Toshiba Pocket PC.

When you disconnect from or exit the Internet or your e-mail application, the Bluetooth connection is also terminated.

Tap here.

The service icon changes to [insert service icon here].

The screen is connected to DUN service.



## 8. Using OPP Service

This section explains how to use OPP service to send and receive contacts, schedules, tasks, and business cards to and from other Toshiba Pocket PCs. "Business cards" here refers to Toshiba Pocket PC owner information. Please be aware that you cannot send voice data or handwritten data entered in the memo section.

### Preparations

Follow the operations below.

Start Bluetooth Settings. (See page 21.)

Set the Bluetooth environmental settings. (See page 22.)

Note

When using OPP service to connect to a cell phone or other Bluetooth device, refer to the user's guide of that Bluetooth device for the proper operations.



Tap **Send by BT** on the popup menu.

The device search screen appears.

Select **View All Devices** and tap **Device Search**.

The device list appears.

You can select multiple contacts by dragging them.

You can also send a contact by tapping the **Tools** menu.

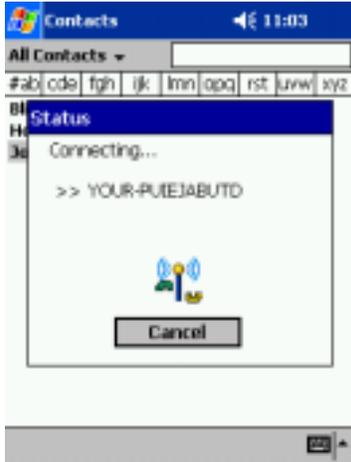
## Sending a contact

Tap **Start** and **Contact**, then tap and hold on the contact you want to send.

A popup menu appears.

Select the type of devices to be displayed in the device list. Do not check the box if you want to display only those devices that provide OPP and FTP service.

Device list



Select the device to which you want to connect by tapping the device name, then tap **Connect**.

A message is displayed indicating that My Device is now connected to the remote device.

A message is displayed indicating that the contact is being sent.

If the Bluetooth Authentication screen appears, enter the Bluetooth passkey (PIN Code) to perform authentication. (See page 30.)



Tap **Close** to close the screen.

After the contact is successfully sent, a message is displayed indicating this and the Bluetooth connection is terminated.

Tap **Close** to return to the contact list screen.

A message is displayed on the remote device Toshiba Pocket PC indicating that the contact has been received.



### Sending all contacts

You can send all contacts including owner information to the remote device. A maximum of 2 MB of information can be sent. (For example, if each contact is 1 kB, you can send up to 2,000 contacts. If you try to send more than 2 MB, an error message appears.)

Tap **Start** and **Contacts** and tap and hold on a contact.

A popup menu appears.

Tap **Send all by BT** on the popup menu.

The following message appears.

You can also send all contacts by tapping the **Tools** menu.



Tap **OK**.

The device search screen appears.

Select **View All Devices** and **Authentication**, then tap **Device Search**.

The device list appears.

Device list

Select the type of devices to be displayed in the device list.

When you are connected to a remote device and want to send all contacts, determine whether you want to perform OPP authentication. Check this box to perform authentication.



Select the device to which you want to connect by tapping the device name, then tap **Connect**.

A message is displayed indicating that My Device is now connected to the remote device.

If OPP authentication is selected, a dialog box appears, prompting you to enter an OPP password. Enter the password and tap **OK**.

If the Bluetooth Authentication screen appears, enter the Bluetooth passkey (PIN Code) to perform authentication. (See page 30.)

The password can be a maximum of 16 alphanumeric characters.

The following message is displayed on the remote device.

If OPP authentication is selected on My Device, a dialog box appears on the remote device, prompting the user to enter the OPP password. Enter the OPP password.

A message is displayed indicating that the contacts are being sent.

Indicate whether the first data object (owner information) to be received by the remote device is to be written in the owner information or contact.

The password can be a maximum of 16 alphanumeric characters.

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Tap **Close** to close the screen.

After the contact is successfully sent, a message is displayed indicating this and the Bluetooth connection is terminated.

Tap **Close** to return to the contact list screen.

A message is displayed on the remote device Toshiba Pocket PC indicating that the contacts have been received.

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### Sending a schedule

Tap **Start** and **Schedule**, then tap and hold on the schedule that you want to send.

A popup menu appears.

Tap **Send by BT** on the popup menu.

The device search screen appears.

For further operations, follow Steps 3 and 4 in "Sending a contact."

You can also send a schedule by tapping the **Tools** menu.

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### Sending a task

Tap **Start** and **Task**, then tap and hold on the task that you want to send.

A popup menu appears.

Tap **Send by BT** on the popup menu.

The device search screen appears.

For further operations, follow Steps 3 and 4 in "Sending a contact."

You can also send a task by tapping the **Tools** menu.

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### Exchanging business cards

Follow this procedure to exchange business cards with another Toshiba Pocket PC. Be sure you have entered the owner information on My Device before exchanging business cards.

Tap **Start > Contact > Tools** menu.

Tap **Exchange by BT**.

The device search screen appears.

Contact

Owner information

Contact

Owner information

My Device Toshiba Pocket PC

Remote device Toshiba Pocket PC

Select the type of devices to display in the display list. Do not check the box if you want to display only those devices that provide OPP and FTP service.

## 58

Select **View All Devices** and tap **Device Search**.

The device list appears.

Select the device to which you want to connect by tapping the device name, then tap **Connect**.

A message is displayed indicating that My Device is now connected to the remote device.

The exchange of business cards begins.

When the exchange of business cards is completed, the name, e-mail address, and phone number of the remote device user appears on the screen, and the Bluetooth connection is terminated.

Tap **Close** to return to the contact list screen.

If the Bluetooth Authentication screen appears, enter the Bluetooth passkey (PIN Code) to perform authentication. (See page 30.)

Device list

## 59

## Receiving a business card

Follow this procedure to receive a business card from another Toshiba Pocket PC Pocket PC. Be sure you have entered the owner information on My Device before exchanging business cards.

Tap **Start > Contact > Tools** menu.

Tap **Receive by BT**.

For further operations, follow Steps 3 and 4 in "Exchanging business cards."

When the business card is received, the name, e-mail address, and phone number of the remote device user appears on the screen, and the Bluetooth connection is terminated.

Contact

Owner information

Contact

Owner information

My Device Toshiba Pocket PC

Remote device Toshiba Pocket PC

**60**

## 9. Using FTP Service

This section explains how to use FTP service to transfer files to and from another Toshiba Pocket PC.

### Preparations

□ **Follow the operations below.**

Start Bluetooth Settings. (See page 21.)

Set the Bluetooth environmental settings. (See page 22.)

**61**

### Starting Bluetooth FTP

Tap **Start > Programs > Bluetooth FTP**.

The server selection screen appears.

Tap **Server Search**.

My Device searches for Bluetooth devices in the vicinity while a message is displayed on the screen indicating that My Device is searching for peripheral devices and obtaining device names.

**62**

The discovered devices are displayed.

Tap the device to which you want to connect, then tap **OK**.

If the FTP Authentication screen appears, enter the FTP password.

The FTP password can be a maximum of 16 alphanumeric characters.

**63**

Remote device window

My Device window

On the remote device, Bluetooth FTP starts automatically and the FTP (Server) screen appears.

On My Device, the FTP (Client) screen appears.

**64**

### Sending a file

In the My Device window, tap and hold on the folder or file that you want to send.

A popup menu appears.

Tap **Send** on the popup menu.

The message **Sending...** appears.

Tap on the file to start the associated application.

You can also send a file by dragging that file to the remote device window.

Send: This sends the file to the remote device.

Execute: This starts the associated application.

New Folder: This creates a new folder in the My Device window.

Delete: This deletes a folder or file.

Rename: This enables you to rename a folder or file.

To exit, tap the **Tools** menu and **Exit**.

**65**

### Receiving a file

In the remote device window, tap and hold on the folder or file that you want to receive.

A popup menu appears.

Tap **Receive** or **Receive/Execute** on the popup menu.

The message **Receiving...** appears.

When you tap the file that you want to receive, the message **Send/Execute Confirmation** appears.

You can also receive a file by dragging that file to the My Device window.

When you tap **Receive/Execute**, My Device receives the file from the remote device and starts the associated application. If there is no associated application, an error message appears.

Receive: This receives the file from the remote device.

Receive/Execute: This receives the file from the remote device and starts the associated application.

New Folder: This creates a new folder in the remote device window.

Delete: This deletes a folder or file.

To exit, tap the **Tools** menu and **Exit**.

## 66

### About the FTP (Client) screen

Update

Up one folder

Folder selection box

Remote device window

Window border

My Device window

Multiple selection

Tools menu

Update

Tap here to update the information displayed in the corresponding window.

Up one folder

This moves the window contents up one folder.

Folder selection box

This displays the tree of the current folder. Select an item on the tree to jump directly to that item.

Remote device window

This displays the folders and files of the connected remote device.

Window border

You can vertically drag the border of the remote device and My Device windows to resize the windows.

My Device window

This displays the folders and files of My Device.

## 67

Server Selection

This displays the Server Selection screen.

When OBEX Filter in Options has a check mark, only those devices providing OPP and FTP service are displayed in the Server Selection screen. When this is not checked, all discovered devices are displayed in this screen.

Tap here to cancel server selection and close the screen.

Multiple selection

Use this to select multiple folders or files in a window. You can then delete, send, or receive all of the selected folders or files.

Tap this icon and select the desired folder or file by tapping on the name. Selected folders and files are highlighted.

Tools menu

Tap here to search for peripheral devices.

Tap here to connect to the selected device.

## 68

Options

Version Information

This displays the version of the program.

Exit

This exits the program.

This enables you to specify the time until disconnection.

If, after transferring files between My Device and a remote device, there is no operation within the specified time, the connection between the devices is terminated. Because Bluetooth FTP is operating, you can tap the FTP (Client) screen to continue to send and receive files.

When there is a check mark here, only those devices providing OPP and FTP service are displayed in the Server Selection screen. When this is not checked, all discovered devices are displayed in this screen.

## 69

### About the FTP (Server) screen

Update

Up one folder

Folder selection box

Window

Status

Multiple selection

Tools menu

Update

Tap here to update the information displayed in the corresponding window.

Up one folder

This moves the window contents up one folder.

Folder selection box

This displays the tree of the current folder. Select an item on the tree to jump directly to that item.

Window

This displays a folder or file.

Status

This displays the connection status of the remote device.

Connected: The remote device is connected to My Device.

Waiting to connect: The remote device is not connected to My Device.

Multiple selection

Use this to select multiple folders or files in a window. You can then delete, send, or receive all of the selected folders or files.

Tap this icon and select the desired folder or file by tapping on the name. Selected folders and files are highlighted.

## 70

Options

The Options settings cannot be changed when My Device is connected. Make sure My Device is unconnected before changing these settings.

Version Information

This displays the version of the program.

Exit

This exits the program.

Tools menu

To perform FTP authentication, enter a password here. The password can be a maximum of 16 alphanumeric characters.

Enable this function to perform FTP authentication when a request to connect is received from a remote device. A check mark indicates that authentication is performed.

## 71

# 10. About the Bluetooth Settings Screen

The command bar on the Bluetooth Settings screen features three menus: Tools, View, and Options. You can use these menus to perform various Bluetooth operations. This section explains the various features of these menus.

Tools menu

Tap **Tools** on the command bar to display the Tools menu.

Command bar

## 72

Searching for peripheral devices

When you tap **Search for Peripheral Devices** on the Tools menu, My Device searches for Bluetooth devices in the vicinity while a message is displayed on the screen indicating that My Device is searching for peripheral devices.

Icons and device status displayed in the device list:

..... This device is connected.

..... This device was discovered.

..... This device was discovered and the connection is registered.

..... This device is a ghost.

..... This device is a ghost and the connection is registered.

Connected..... This device is connected.

Discovered..... This device was discovered during the search for peripheral device and is believed to be connectable. (A connection is permitted.)

Ghost.... This device was previously discovered, but is no longer found during the search for peripheral devices.

Types of displayed devices

(Devices selected using the View menu.)

Service list

Device list

A maximum of 255 devices can be displayed.

All discovered devices are displayed in the device list of the Bluetooth Settings screen.

## 73

Tap and hold on the name of a device in the device list to display the popup menu.

■ Updating service

Tap **Update Service** to display the updated service information of the selected device in the service list of the Bluetooth Settings screen.

See the next page for the icons and status.

## 74

Icons displayed in the service list:

Status displayed in the service list:

Connected..... This service is connected.

Unconnected..... This service is not connected.

Service icon      Connected      Registered connection

Service

COM service

DUN service

OPP service

FTP service

LAP service

NAP service

GN service

Icon

—

—

## 75

Tap and hold on the name of a service in the service list to display the popup menu.

The items displayed in the menu vary depending on the type of service.

Tap **Connection Registration** to register a connection. The icons displayed in the device and service lists change to registered connection icons.

Tap **Properties** to display the detailed information of the selected service.

## 76

Tap **Properties** to display the detailed information of the selected remote device.

### ■ Properties

- Device Name..... This is the name of the selected device.

- Connection Status... This displays the connection status of the device (Connected, Discovered, or Ghost).

- Device Address... This is the number written on the Bluetooth Card.

- Device Class

For a computer:

This displays the type of computer (Desktop Computer, Server Computer, Laptop Computer, or PC/PDA).

For a phone:

This displays the type of phone (Cell Phone, Cordless Phone, Smart Phone, or Wired Modem or Voice Gateway).

- Authentication Status

For remote devices that have been authenticated with a Bluetooth passkey, **Pairable** is displayed. For unauthenticated devices, **Untrusted** is displayed.

### ■ Delete

Tap **Delete** to delete the selected remote device from the device list, service list, and database of discovered peripheral devices. The selected device cannot be deleted if it is connected to My Device.

## 77

### Search options

If you select **Enable Device Name Search**, the device names are searched for during the search for peripheral devices and listed in the device list.

If you select **Disable Device Name Search**, the device names are not searched for during the search for peripheral devices, thereby reducing the search time. In this case, only the device addresses are displayed in the device list.

Device address

This is the number listed on the Bluetooth Card as BDA: XX...X.

Tap **Search Options** on the Tools menu to display a popup menu.

## 78

This device is deleted.

### Deleting ghost devices

Tap **Delete Ghost Device** on the Tools menu to delete all devices displayed in the device list as ghosts.

## 79

Tap **View** on the command bar to display the View menu.

### View menu

#### Details

Tap Details on the command bar to display the device names in the device list.

## 80

### Icons

Tap an icon on the command bar to display that icon in the device list.

Icons displayed in the device list

Discovered   Connected   Ghost

Icons

Computer

Desktop computer

Server computer  
Laptop computer  
Handheld PC/PDA  
Palm-sized PC/PDA  
Phone  
Cell phone  
Cordless phone  
Smart phone (a phone with built-in PDA and Epoch or similar platform)  
Wired modem or voice gateway  
LAN (LAN access point)  
Peripheral equipment (mouse, joystick, keyboard, etc.)  
Audio device (headset, speakers, etc.)  
Unknown  
Description

## 81

Among the devices discovered using Search for Peripheral Devices in the Tools menu, only the types of devices selected in this display menu are displayed in the device list.

The currently selected device is indicated with a black dot. Tap the desired type of device.

## Filter

## 82

### Options menu

### Security Settings

Tap **Options** on the command bar to display the Options menu.

Tap **Security Settings** on the Options menu to display the Change Security Setting screen.

The selected radio button indicates the currently selected security setting.

Tap here to display the advanced settings for the selected security setting.

Tap here to cancel this operation and close the screen.

You can select from four security settings: Office, Mobile, Home, and Other. The default setting is Home.

To change the security setting, tap the desired security setting and **OK**.

Tap here to apply the selected security setting and close the screen.

## 83

### ■ Advanced settings

The selected radio button or checked box indicates the currently selected setting.

Tap here to return to the default settings.

Tap here to cancel this operation and return to the Change Security Setting screen.

Tap here to apply the selected settings and return to the Change Security Setting screen.

The default settings are as follows.

Discoverability Mode	Connectability Mode	Security Mode	Encryption	
Office	Discoverable	Connectable	Security On	Yes
Mobile	Non-discoverable	Non-connectable	Security On	Yes
Home	Discoverable	Connectable	Non-secure	No
Other	Discoverable	Connectable	Security On	Yes

To change an advanced setting, select the desired setting and tap **OK**.

In the default setting for Home, the Security Mode is set to Non-secure and, therefore, unspecified devices may be able to connect to My Device. It is recommended that you set the Security Mode to Security On.

If you want to set the Connectability Mode to Non-connectable and you are operating your Toshiba Pocket PC in an environment in which there are three or more operating Bluetooth devices, you should also set the Discoverability Mode to Non-discoverable.

## 84

Tap and hold on [insert BT icon here]

### Note

You can also change the security setting by tapping and holding on [insert BT icon here] on the Today screen and tapping **Change Security Setting**. A menu with the four security settings appears. Tap the desired security setting.

Tap the desired security setting.

## 85

### Registration History

Tap **Registration History** on the Options menu to display the Connection Registration History screen.

You can also change the connection registered device by tapping and holding on [insert BT icon here] on the Today screen and tapping **Registration History**. A menu with the last five connected devices appears. Tap a device to select it and set it as the current connection registered device.

Tap ▼ to display the last five connection registered devices. If there are more than five devices, those extra devices are deleted, beginning with the oldest device. Tap a device to select it and set it as the current connection registered device. This displays detailed information of the selected device.

## 86

### Version Information

Tap **Version Information** on the Options menu to display the version information of Bluetooth Settings.

### My Device

The default device name is Toshiba BT.

To change the name of the device, enter a new name in the Device Name box and tap **OK**.

The device name can be a maximum of 248 bytes.

If the device name exceeds 248 bytes, an error message appears.

Tap **My Device** on the Options menu to display the Device Information screen for My Device.

You can change the name of the device here.

This information cannot be changed.

Tap here to cancel this operation and close the screen.

Tap here to apply the device name setting and close the screen.

**87**

## 11. Error Messages

This section explains the causes of and solutions for the various displayed error messages.

### Error messages during COM/DUN service

An error has occurred with the Bluetooth Card. Confirm that the card is working properly.

Cause... There was an error when loading the driver.

Solution... Try reinserting the card.

Unable to retrieve My Device information.

Solution... Reset the Toshiba Pocket PC.

Unable to retrieve My Device information due to insufficient memory. Check the amount of available memory.

Solution... Reset the Toshiba Pocket PC, increase the memory, and then restart Bluetooth Settings.

Remote device search failed due to insufficient memory. Check the amount of available memory.

Solution... Increase the memory and then try the remote device search again.

Unable to retrieve remote device information.

Solution... Display the remote device list again or try the remote device search again.

Unable to update remote device information.

Solution... Depending on communications conditions, My Device may not be able to locate the service of the remote device. Try the remote device search again or reset the Toshiba Pocket PC.

The maximum number of remote devices (255) has been exceeded. Delete all unneeded remote devices.

Solution... Delete unneeded ghost devices and try the remote device search again. If more than 255 devices are discovered, some devices will not be displayed.

**88**

Unable to delete remote device.

Solution... Try deleting the remote device again or reset the Toshiba Pocket PC.

The device name that you entered exceeds the maximum byte count of 248 bytes. Enter a different device name.

Cause... The name of My Device exceeds 248 bytes after UTF-8 code conversion.

Solution... Enter a name that does not exceed 248 bytes.

The retrieved information contains invalid data.

Cause... The device information contains invalid data.

Solution... Display the device list again or update the device information with the remote device search.

Unable to delete remote device due to insufficient memory. Check the amount of available memory.

Cause... There is insufficient memory to delete the device.

Solution... Increase the amount of available memory and then try to delete the device again.

Service list search failed due to insufficient memory. Check the amount of available memory.

Solution... Increase the amount of available memory and then try the service list search again.

The maximum number of services (30) has been exceeded.

Cause... The Toshiba Pocket PC has detected more than its maximum number of services (30).

Solution... Have the remote device delete unneeded services, and then update the service list.

**89**

Unable to successfully connect. Check the status.

Cause... An error occurred while trying to connect to a device or service.

Solution... Check the status of the device or service and try connecting again.

Unable to successfully disconnect. Check the status.

Cause... An error occurred while trying to disconnect from a device or service.

Solution... Reset the Toshiba Pocket PC.

Unable to update service information.

Cause...  An error occurred while trying to update the service information.

The passkey was not entered within the 20-second time limit and, as a result, the program timed out.

An incorrect passkey was entered.

There are no available services.

Solution... Try updating the service information again.

The connection is not registered. Use the Bluetooth Setup Utility to register the connection.

Solution... Register the connection and try connecting again.

Unable to delete connection registration information.

Solution... Reset the Toshiba Pocket PC.

An internal processing error has occurred.

Solution... Reset the Toshiba Pocket PC.  
An internal processing error has occurred with the Discoverability Mode setting.  
Solution... Reset the Toshiba Pocket PC.  
An internal processing error has occurred with the Connectability Mode setting.  
Solution... Reset the Toshiba Pocket PC.

## 90

An internal processing error has occurred with the Security Mode setting.  
Solution... Reset the Toshiba Pocket PC.  
An internal processing error has occurred with the Encryption setting.  
Solution... Reset the Toshiba Pocket PC.  
Unable to register the device name. The previous device name will be used.  
Solution... Try registering the connection again.  
The device name that you entered contains invalid characters. Enter a different device name.  
Cause... The device name contains only spaces or nothing at all.  
Solution... Enter a device name that does not contain only spaces.  
Unable to retrieve service information.  
Solution... Display the service list again.  
Unable to register connection information.  
Solution... Close Bluetooth Settings, turn off the power of the Toshiba Pocket PC, and then turn the power on again, or reset the Toshiba Pocket PC.  
Unable to retrieve connection information.  
Solution... Close Bluetooth Settings, turn off the power of the Toshiba Pocket PC, and then turn the power on again, or reset the Toshiba Pocket PC.  
[insert BT icon here] does not appear on the command bar.  
Solution... Tap **Start > Programs > Bluetooth Settings**, or reset the Toshiba Pocket PC.

## 91

### Error messages during OPP service

Unable to connect to the specified device.  
Cause... The Bluetooth connection, authentication, or OPP service connection failed.  
Request denied by the remote device.  
The remote device does not support this function.  
Cause... The remote device does not support OPP service.  
Unable to send the object.  
Cause... My Device is unable to send a contact, schedule, task, or business card due to a problem with the signal or a similar communications error.  
Unable to receive the object.  
Cause... My Device is unable to receive a contact, schedule, task, or business card due to a problem with the signal or a similar communications error.  
Select the item you want to send.  
Cause... You have not selected an item to send.  
Unable to store all receiving data due to insufficient memory.  
Cause... A contact, schedule, or task cannot be stored due to insufficient memory.  
Solution... Delete any unneeded data to increase the memory capacity.  
Name not specified in owner information.  
Cause... A name has not been specified in the Name area of the owner information.  
Solution... Complete the owner information setting. A name is required.  
Bluetooth Settings has not been started.  
Cause... The Bluetooth Settings program has not been started because a Bluetooth Card has not been inserted in the Toshiba Pocket PC.  
Solution... Check to see if a Bluetooth Card is inserted in the Toshiba Pocket PC.

## 92

Program cannot be started because Bluetooth receiving program is running.  
Cause... While the Bluetooth receiving program was running or the popup menu was displayed as you were trying to receive a contact, schedule, or task, you tried to send or receive another contact, schedule, or task.  
Solution... You can only receive one contact, schedule, or task at a time while the Bluetooth receiving program is running. Wait until you have finished receiving the first object before sending or receiving another object.  
Program cannot be started because Bluetooth sending program is running.  
Cause... The Bluetooth receiving program was executed while the device search screen was displayed in the Bluetooth sending program.  
Solution... Close the device search screen and try again.  
Bluetooth Settings encountered an error and could not be executed.  
Cause... An error occurred in the initial settings of the Bluetooth Settings program and the program could not be continued.  
Solution... Reset the Toshiba Pocket PC.  
Processing interrupted due to insufficient memory.  
Cause... The memory capacity was insufficient because a buffer could not be allocated.  
Solution... Shut down other operating programs or reset the Toshiba Pocket PC.  
Unable to retrieve device information.

Unable to send business card.  
Unable to receive business card.  
Unable to exchange business cards.

### 93

Unable to save receiving data.  
Cause... Invalid data has been received or the contact, schedule, or task data cannot be saved for a reason other than an insufficient memory.  
Solution... Confirm that the data sent by the connected remote device is in a format supported by Toshiba Pocket PC.  
There is no response from the partner device.  
Cause... The remote device (server) did not respond to a request to connect or send/receive data within a set time.  
Solution... Confirm that the remote device is operating properly.  
This cannot be sent because it contains invalid data.  
Cause... An error has occurred in the data conversion at the time the object was sent.  
Processing interrupted due to an internal error.  
Cause... The processing could not be continued due to an internal error.  
Solution... Reset the Toshiba Pocket PC.

### 94

#### Error messages during FTP service

Cannot execute because FTP profile is not supported.  
Cause...The inserted Bluetooth Card does not support FTP service.  
Solution...Insert a Bluetooth Card that supports FTP service.  
The FTP server could not be started because the FTP client is operating.  
Cause...A request to start the Bluetooth FTP server was received from a peripheral device while the Bluetooth FTP client is operating on My Device.  
Solution...If you exit Bluetooth FTP on My Device, the request from the peripheral device to start the Bluetooth FTP server can be accepted.  
The FTP client could not be started because the FTP server is operating.  
Cause...You tapped the Bluetooth FTP icon to try to start Bluetooth FTP while the Bluetooth FTP server is operating.  
Solution...Exit Bluetooth FTP on My Device. Once the Bluetooth FTP server is closed, start up Bluetooth FTP.  
Unable to delete (file/folder name)  
Cause...An error occurred while trying to delete a file or folder, or a separate file or folder exists within the specified folder.  
Solution...Remove the file or folder from the specified folder and try deleting it again.  
Unable to delete read-only file.  
Cause...My Device tried to delete a file on the remote device, but because it is a read-only file, it could not be deleted.

### 95

The selected file/folder already exists. Enter another file/folder name.  
Cause...The name you tried to enter already exists.  
Solution...Enter a different name.  
Enter a file/folder name.  
Cause...Either nothing has been entered for the name or the name consists of spaces or begins with a period.  
Solution...Enter a correct name.  
The following characters cannot be used in the file/folder name. ¥ / ; , : \* ? " < > |  
Cause...You entered an invalid character in the file/folder name.  
Solution...Rename the file/folder using correct characters.  
Cannot rename file/folder.  
Cause...A processing error occurred because the entered name exceeded the maximum length.  
Solution...Enter a shorter name.  
Enter the folder name.  
Cause... After creating or changing a folder, either nothing has been entered for the name or the name consists of spaces or begins with a period.  
Solution...Enter a correct folder name.  
The following characters cannot be used in the folder name. ¥ / ; , : \* ? " < > |  
Cause... You entered an invalid character in the new folder name.  
Solution... Rename the folder using correct characters.  
The folder name could not be created.  
Cause... A processing error occurred because the entered name exceeded the maximum length.  
Solution... Enter a shorter name.

### 96

The specified file could not be executed.  
Cause...You selected Execute or Receive/Execute, but the specified file is not executable or the associated application software could not be found.  
The connection destination server is not selected. Select a server.  
Cause...You have not selected the device to which you want connect.  
Sending or receiving failed. Canceling process.  
Cause...Sending, receiving, deleting, or retrieval of folder information failed.  
Solution...Try the operation again.  
The memory was exceeded while receiving files. Canceling process.

Cause...The memory to store the files or folders was insufficient when receiving or receiving/executing the files or folders.  
Solution...Delete any unneeded data to increase the memory capacity, and try again.  
An error occurred during server search. Canceling process.  
Cause...My Device tried to send or receive a file, but was unable to connect to the remote device.  
Unable to obtain usable COM port. Ending program.  
Cause...A COM port could not be opened during auto connect.  
The OBEX password contains an invalid character. Enter the password again.  
Cause...On the FTP Server screen of the remote device, when **Tools** and **Options** were selected and the FTP authentication password entered, an invalid character was used.  
Solution...Use ASCII code characters when entering the password.  
Unable to move folder or obtain folder information.  
Solution...Try the operation again.  
Registry problem  
Cause...A problem occurred in the registry data required for processing.

## 97

There is no response from the partner device. Ending application.  
Cause...My Device tried to connect, disconnect, or perform a service search, but there was no response from the remote device and a time-out error occurred.  
Solution...First exit Bluetooth FTP from My Device.  
An internal processing error has occurred. Canceling process.  
Could not allocate the memory for processing. Canceling process.  
Solution...Delete any unneeded data to increase the memory capacity, and try again.  
A file (or folder) with the same name exists. Skipping transfer.  
Cause...A file or folder exists with the same name as the file or folder that is being received.  
An error occurred during server search.  
Cause...My Device was unable to search for peripheral devices.  
Solution...Try the operation again.  
Bluetooth Settings cannot be started.  
Cause...The Bluetooth Card may not be inserted in the Toshiba Pocket PC.  
Solution...Perform the steps to start Bluetooth Settings.  
(Folder name) does not exist.  
Cause...The folder that you tried to locate in My Device does not exist.  
A communications error occurred.  
Cause...An internal OBEX error occurred when the remote device was started.  
Solution...If the device you were unable to connect is not a Bluetooth Card, try the operation again without FTP authentication.

## 98

# 12. Glossary

## General Bluetooth terms

### My Device

In Bluetooth communications, this refers to the local Toshiba Pocket PC. It is also called a client.

### Remote Device

In Bluetooth communications, this refers to the connected partner device. It is also called a server.

### Device Address

Each Bluetooth Card has a unique device address that is listed on the card as BDA:XXX...X.

### Bluetooth Passkey

This is a password. It is also called a PIN Code.

### Profile

This refers to the specifications (services) used in Bluetooth communications. The specifications (services) are determined by the type of communications.

## GUI Bluetooth terms

### Ghost

This is a device that was previously discovered, but is no longer found during the search for peripheral devices.

### Discovered

This is a device discovered during the search for peripheral devices.

### Search for Peripheral Devices

This function is used to search for Bluetooth-enabled devices.

## 99

### Delete Ghost Device

This function is used to delete ghost devices from the device list.

### Connected Device

This is a remote device that currently has a Bluetooth connection to My Device.

### COM Service Device

This is a device that provides SPP (Serial Port Profile) service.

### DUN Service Device

This is a device that provides DUN (Dial-up Networking Profile) service.

#### FTP Service Device

This is a device that provides FTP (File Transfer Profile) service.

#### GN Service Device

This is a device that provides GN (Group Ad-hoc Network) service as a part of PAN (Personal Area Networking Profile) service.

#### LAP Service Device

This is a device that provides LAP (LAN Access Profile) service.

#### NAP Service Device

This is a device that provides NAP (Network Access Point) service as a part of PAN (Personal Area Networking Profile) service.

#### OPP Service Device

This is a device that provides OPP (Object Push Profile) service.

#### Security Settings

There are four security settings: Office, Mobile, Home, and Other.

#### Discoverability Mode

This setting determines whether My Device can be discovered by other Bluetooth devices.

### 100

#### Connectability Mode

This setting determines whether My Device can be connected to by other Bluetooth devices in response to a connection request.

#### Security Mode

This setting determines whether authentication is performed when connecting to a remote Bluetooth device, and whether data sent and received is encrypted.

#### Service Update

This function is used to search for and update information on services provided by a connected remote Bluetooth device.

#### Auto Connect

- For a COM service, the program using COM is started and a connection is established with the connection registered Bluetooth device using the Serial Port Profile.

- For a DUN service, Dial-up Networking is started and a connection is established with the connection registered Bluetooth device using the Dial-up Networking Profile.

#### Connection Registration

This function is used to register an automatic connection.

#### Device Name

This is the name of a Bluetooth device. It can be a maximum of 248 bytes (after UTF-8 code conversion).

#### Connection Status

This displays the current connection status (Connected, Discovered, or Ghost) of Bluetooth devices.

#### Device Address

This is the unique address given to each Bluetooth Card.

#### Device Class

This indicates the type of Bluetooth device (desktop computer, cell phone, etc.). A Bluetooth Card is categorized as a PDA.

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#### Authentication

This is the process of confirming an authentication password to allow a remote Bluetooth device to connect to My Device. If the authentication passwords on both devices do not match, the connection is refused.

These are the following types of authentication:

Bluetooth authentication..... This is requested when trying to establish a Bluetooth connection with a remote device. You must enter the Bluetooth passkey to connect.

OPP authentication..... This is requested when trying to connect to a remote device to send all contacts by OPP service. You must enter the OPP password.

FTP authentication..... This is requested when trying to connect to a remote device to start FTP service. You must enter the FTP password.

#### Authentication Status

For remote devices that have performed Bluetooth authentication, **Pairable** is displayed. For unauthenticated devices, **Untrusted** is displayed.

#### Service Name

This indicates the type of service (profile) provided by a Bluetooth device.

#### PIN Code

This is a password of up to 16 alphanumeric characters.

Depending on the remote device, the PIN Code might be a fixed value with a limit on the number of digits, so be sure to confirm these conditions.

It is also called a Bluetooth passkey.