

TOSHIBA

Release Note

Bluetooth® Stack for Windows® by TOSHIBA

Version 6.00.05

- Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.
- The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc., and any use of such marks by Toshiba is under license. Other trademarks and trade names are those of their respective owners.
- All other brand and product names are trademarks or registered trademarks of their respective companies.
- This product and release note is for licensed customers' use only, and not for end users' distribution.

1. Table of contents

1. TABLE OF CONTENTS	2
2. SPECIFICATION	3
3. UTILITIES DESCRIPTION	5
4. FUNCTION DESCRIPTION	5
5. COM PORTS ASSIGNMENT RULE	6
6. INSTALLATION	6
7. PARAMETER FOR LANGUAGE SELECTION	7
8. MAJOR UPDATE HISTORY	8
9. NOTES	11

2. SPECIFICATION

Supported Languages	Chinese(Traditional) Chinese(Simplified) Danish Dutch English French Finnish German Greek Italian Japanese Korean Norwegian Polish Portuguese Portuguese(Brazil) Russian Spanish Swedish
Supported OS	Windows Vista Starter Edition Windows Vista Home Basic Windows Vista Home Premium Windows Vista Ultimate Windows Vista Business Windows Vista Enterprise Windows XP Professional Windows XP Home Edition Windows XP Media Center Edition Windows XP Tablet PC Edition Windows XP Professional x64 Edition Windows 2000 Professional
Bluetooth Specification	Version 2.0 + EDR Version 2.1 + EDR -Secure Simple Pairing (SSP) -Link Supervision Timeout Changed Event (LSTO) -Extended Inquiry Response (EIR) -Encryption Pause/Resume (EPR) -Sniff Subrating (SSR) -Erroneous Data (ED): Not supported. -Non-Flushable Packet Boundary Flag (PBF): Not supported.
Profiles	A2DP-Sink A2DP-Source AVCTP AVDTP AVRCP-Target BIP-ImagePush BIP-RemCam BNEP DUN-DT Fax-DT FT-Client

	FT-Server GAP GAVDP Generic Object Exchange HandsFree-AG(1.0) HCRP-Client(1.2) Headset-AG HID-Host OPP-Client OPP-Server PAN-Group PAN-User SDAP SDP Serial-DevA Serial-DevB
Installer	Install Shield 12, Microsoft Installer base(msi)
Interface	USB
WHQL Logo	All drivers passed WHQL tests.
Bluetooth Logo	Bluetooth V2.0+EDR Module + V6.xx.xx → Use ID of V5.xx.xx Qualified Design ID: B011839(PRD2.0 Profile Subsystem) Qualified Design ID: B012646(PRD2.0 Host Subsystem) Bluetooth V2.1+EDR Module + V6.xx.xx → Use ID of V6.xx.xx Qualified Design ID: B011839(PRD2.0 Profile Subsystem) Qualified Design ID: B012646(PRD2.0 Host Subsystem)
License key	Necessary
Utilities	Auto Registration (HID devices) Bluetooth Information Exchanger (BIE) Bluetooth Local COM Bluetooth Settings COM ReConnection Remote Camera VoIP Utility (Skype application supported) -Skype: V3.1.0.147-V3.6.0.248 # For V3.6.0.216 and later, see "7.Notes". Wireless File Transfer BT Security Export(/Import)
AVRCP support applications	-Windows Media Player: Version9- 11.0.6001.7000 -iTunes: V6.0.2.23-V7.6.1.9 -others

3. Utilities description

Utilities	Description
Bluetooth Settings	Device registration, connect, and disconnect.
Wireless FTP	The plural files to be sent to remote devices by using this utility. Auto distinction of OPP, FTP, BIP.
Remote Camera	Receive images from BIP/Remote Camera function supported device.
Bluetooth Information Exchanger(BIE)	Add-in to explorer. After send/receive file, you can browse folder, and exchange vCard.
Auto Setup	Utility to drivers install, setting parameters automatically. It works as a part of installer.
VoIP Utility	Enable to use Hands-Free device with Skype.
Automatic Registration	Enables HID device to be registered automatically when user log-on.
ComReConnect	COM ports are Re-Connected automatically.
Bluetooth LOGO Test Tool	PTS Test Tool(embedded) HCI, L2CAP, SDP, and others(only for LOGO)
IT Security Feature	Security settings for IT administrator.

4. Function description

Items	Description
Outlook Addin	Addin to enable sending vCard from Outlook. For x32 OS, and Outlook 2003.
AFH Support	To avoid Wi-Fi channel which duplicate with Bluetooth channel, and try to protect Bluetooth communication channel.
Wake on BT	For PC or Bluetooth module which support USB wake up. (For Windows XP or over.)
Selective Suspend	For PC or Bluetooth module which support USB wake up. (For Windows XP or over.)
Keyboard Utility	When Bluetooth Keyboard is registered, the status of keyboard is displayed.
FUS support	Automatically switch Bluetooth access right to active user.
Dynamic Language Selection	Automatically switch language dynamically by watching the OS language. (include Help files)
Software Virtual Power Management	Bluetooth ON/OFF emulation utility for power uncontrollable device such as USB adapter.
Enhanced IT Security Management	Function to enable to control on Bluetooth function to limited users. Security settings, remote maintenance, and control functions to limited users by IT Manager.

5. COM ports assignment rule

Toshiba stack assigns COM ports avoiding preoccupied COM ports by following rules as next.

- | | |
|--------------------------------|-----------------------------------|
| 1) SPP (Installation) default: | COM6, COM7 |
| 2) OBEX default: | COM10, COM11, COM12, COM13, COM14 |
| 3) HSP/HFP default: | COM20, COM21, COM22 |
| 4) SPP/DUN: | COM40 |

If the default COM port(s) was preoccupied, assigns following free COM port(s) instead.

6. INSTALLATION

Operation examples:

1) User Installation

Setup.exe

(Setup.exe will detect OS version of x32 or x64 and install appropriate version)

1. Start installation with "Setup.exe"
2. Proceed installation by following instructions from install wizard.
3. Insert Bluetooth USB adapter when the message appeared to prompt insert the Bluetooth device to the computer.
4. Continue the installation process.
5. Bluetooth Stack is ready to use after completion of the installation process.

2) Factory installation (un-attended mode. Login as administrator for installation.)

`msiexec.exe /i "<full path>BtSwInst.msi" /qn TRANSFORMS=<1033.mst> REBOOT=ReallySuppress`

Note: Install command to start "silent install" with setup.exe.

`start /w setup.exe /w /s /v/qn`

3) Administrator installation

`msiexec.exe /a "<full path>BtSwInst.msi" TRANSFORMS=<1033.mst>`

Note:

As some files are not copied automatically, the mst file of the selected language, 'setup.exe', 'setup.ini' files need to be copied to the installed folder (which BtSwInst.msi file is in) manually for client user's installation.

The export tool is launched by the installer automatically, and administrator can edit an initialization file (tosBtUtil.ini) for customizing detail of security settings. Import feature installs this customized security settings when the client user installs it.

7. Parameter for language selection

TRANSFORMS=	Language
1028.mst	Chinese, Traditional
1030.mst	Danish
1031.mst	German
1032.mst	Greek
1033.mst	English
1034.mst	Spanish
1035.mst	Finnish
1036.mst	French
1040.mst	Italian
1041.mst	Japanese
1042.mst	Korean
1043.mst	Dutch
1044.mst	Norwegian
1045.mst	Polish
1046.mst	Portuguese(Brazilian)
1049.mst	Russian
1053.mst	Swedish
2053.mst	Chinese, Simplified
2070.mst	Portuguese (Portugal)

Note: Specified mst file must exist in the same folder as msi file.

8. Major update history

Version 6.00.05

1. BSOD on DTM of Vista64/SP1 is fixed.
2. Mode status signal is changed to be "0", when virtual COM port is not connected.
3. FTP server process is updated.
When the SetPath parameter is "NULL", the set folder is reset to root folder.
4. File Transfer issue is fixed.
Application error (TosBtProc.exe) happened on receiver side, when File Transfer is canceled by sender side while the file is on the way.
5. Bluetooth Information Exchanger message is updated.
The message is changed when you change the configuration of Bluetooth Information Exchanger icon location on [Option]-[Bluetooth Information Exchanger]. For other language is to be updated in later version.
6. On help file of IT Administrator Feature (Chinese Traditional/Simplified) was not displayed properly.

Version 6.00.03

1. RFBUS(tosrfrbd.sys) is updated to improve device backward compatibility.
Updated driver checks capability of Bluetooth module before uses inquiry command.
2. Help file is updated.
Help for IT Security Feature (ITSEC.chm) explains functions of IT security settings window.
3. RFHID driver (tosrfrhid.sys) is updated to fix PTS test tool issue.
If HID device's service attribute contains "HIDVirtualCable = 1" and "HIDReconnectInitiate = 0" then RFHID driver had not completed registration.
4. Audio auto connect function issue is fixed.
Audio auto connection may cause application error.
5. Bluetooth Information Exchanger (BIE) settings issue is fixed.
When changing the BIE location in [option] menu, icon was not displayed properly.
6. Bluetooth Manager is updated to fix the setting issue of tasktray icon.
Cause of this issue was related to the timing of service program communication.

Version 6.00.02

1. Setup.exe in the root folder is updated.
2. Automatic printer installation feature (option) is added. Normally this option is disabled.
"tbpCheck.exe" is the tool to create printer information file (ini file) when installation of the stack.
If this ini file is included in the install image, the printer is already registered in Bluetooth Settings before first launching.
3. Printer driver is deleted at uninstallation.
4. Bluetooth Settings is updated to display printer icon which is registered by other user.
5. Printer registration is restored after uninstallation.
6. Silent uninstall command parameter option is added.
DELETEALL=1 option deletes all registered information.
7. F1-key action is updated to display the help file on IT Security Settings and some other utilities.
8. Audio auto registration issue is fixed.
-Second audio device did not reiterated.
-Possibility of Bluetooth Manager error is fixed. It is related to Auto-Connection feature and S3 resume.
-Memory usage was gained when Audio auto registration is on and keep reconnecting.
9. HFP function is modified to support connection request from the remote headset.
10. PASSKEY authentication UI is updated.
-Device name of remote device can be displayed even if it is unknown device.
-PASSKEY dialog will close automatically if authentication is failed between the keyboard failed.
11. Help file is updated.
12. Copyright is changed from "-2007" to "-2008".
13. Printer issue is fixed. (Windows XP 64bit)

On Windows XP 64bit, if the printer driver installation is canceled, the old driver is assigned automatically.

Version 6.00.00

1. tosrfhid driver is updated.
 - HID driver (tosrfhid.sys) is updated.
 - HID driver (tosrfhid.sys) failure possibility is fixed.
2. RFBNEP (tosrfbnep.sys) failure possibility is fixed.
3. Help file is updated.
4. tosrfgd driver is updated.
 - For Sniff Subruting.
5. Audio connection transfer issue is fixed.
 - By operation from headset, audio connection transfer from headset to PC speaker/microphone works properly from this version. It requires headset to support this function.
6. Display setting issue is fixed.
 - When display setting is 120DPI, part of the dialog in [OPTION] window was not displayed properly.
 - When display setting is 120DPI, "Bluetooth Camera" was not displayed properly.
7. OBEX receive dialog wording is updated.
 - Change the wording from "Receive File" to "File(s) received."
 - In Greek, [Open Folder] button was not properly displayed.(Fixed)
 - Shortcut menu is removed, since this function does not support shortcut.
8. In [OPTION], the pop up message is changed when setting Tray Icon to "Hide".(Except Japanese)
9. Just Works Dialog message is changed when authenticating between V2.1 device.(Except Japanese)
10. In OBEX Receive confirmation dialog and Receipt dialog, tab key did not work properly.(Fixed)
11. In Receive confirmation dialog in OBEX/Bluetooth Information Exchanger, files were saved in default folder although setting the optional folder to save in.
12. Wireless File Transfer wording is updated.
 - Wording is changed from "ticked" to "Checked"
13. Uninstallation routine is updated to keep HCRP printer registration information.

After reinstalling the Bluetooth Stack, registered information of the printer is taken over in the Bluetooth Settings.

The reinstalling stack should be V5.10.19 or later.
14. On SCO connection, TosBtHsp.exe has a possibility of application error.
15. Bluetooth Settings does not respond from the operation below is fixed.

On device selecting window in Bluetooth Settings, the operation such as "Bluetooth OFF" and "pull out a Bluetooth dongle" when the utility is updating the device name, makes Bluetooth Settings not respond.
16. When shutdown (log off), the message below was displayed. (Fixed)

"Ending Program...Please wait

If you choose to end the program immediately. you will lose any unsaved data. To end the program now, click End Now. "

Version 6.00.00 RC1

1. Initial release of Version V6.00
2. Supported Bluetooth technology Version 2.1
3. V6.00.00 new functions added from V5.10.xx.
 - IT security settings
 - Audio (A2DP) device auto reconnection
4. Updated functions on V6.00.00 from V5.10.xx
 - "Wireless File Transfer" is updated
 - Device list displays connected device names with text "history"
 - "Bluetooth Information Exchanger" is updated
 - Popup window appears after receiving file for users to select next action to the file.
 - Diagnostics feature is updated

5. All other features are the same as V5.10.xx

9. Notes

Drivers only installation/ un-installation

Drivers only installation/ un-installation (ddsetup.exe) functions are not included. "Drivers only installation/ un-installation" is provided by request base.

Windows Operating System Upgrade

Please uninstall the stack before upgrading the Windows Operating System, and install the stack again after upgrading.

Mouse works sluggish

Occasionally, using Bluetooth Mouse with Bluetooth mono headset, Bluetooth Mouse works sluggish.

Skype application support

For Skype V3.6.0.216 and later version, name of the audio driver is corrupted, because of Skype issue.

HFP connecting issue

When HFP connection was made in Bluetooth Settings, HFP connection may be failed because of the headset characteristics. In this case, you cannot connect to PC from headset. Please connect from Bluetooth Settings, or establish the HFP connection settings.

- End of Release Note -