

Intel® PROSet/Wireless for Bluetooth Technology Software 17.0.1401 Sustaining PV Release

TIC: WWBTW0664_17.0.1401 PV

PCCG Wireless Marketing



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Release Overview

- Intel® announces Bluetooth 17.0.1401 PV (sustaining) release.
 - TIC Number: WWBTW0664_17.0.1401 PV

This release has:

- FW version: 17.0.1347.02
- Motorola Driver version: 17.0.1312

General Information

- Supported HW
 - Intel® Dual Band Wireless AC7260
 - Intel® Dual Band Wireless-N 7260
 - Intel® Wireless-N 7260
 - Intel® Dual Band Wireless-AC 3160
 - Intel® Centrino® Wireless-N 1030
 - Intel® Centrino® Advanced-N 6230
 - Intel® Centrino® Wireless-N 2230
 - Intel® Centrino® Advanced-N 6235
 - Intel® Centrino® Wireless-N 130
 - Intel® Centrino® Wireless-N 135
- Supported OS:
 - Windows 7
 - Windows 8
 - Windows 8.1

Fixed Issues - WWBTW0664_17.0.1401 PV

ID	Title
MWG100179461	ADK- BT is causing excessive Disk I/O during boot time (Win8 64 bit)
MWG100182057	BT4.0 mouse doesn't work after PM operation. (Win7 32 and 64 bit)
MWG100187778	Bluetooth will not toggle OFF during file transfer (Win8 64 bit)
MWG100179193	Buffalo BLE mouse is taking 2 minutes or more to connect after pairing (Win7 32 and 64 bit)
MWG100182778	BT failed to Print via BT printer using HCRP profile (Win8.1 64 bit)
MWG100184039	Unit can not pair with printer via BT (Win8.1 64 bit)
MWG100192274	Remove Skype Support (From Microsoft, after December, all API in Skype will be disabled.) (Win7/Win8/Win8.1 32 and 64 bit)
MWG100192269	Add 7 registry keys be default for Win7 http://support.microsoft.com/kb/2484742
MWG100188156	Unsupported service with Plantronics headset (Win7 64 bit)
MWG100192905	Install ibtsiva for Win7/8/8.1 32 and 64 bit (refer to slide 6 for details) (WP2)

iBTSiva Details

Brief description:

- Ibtsiva is a service, it starts running each time the device comes out of Sx state (could be system Sleep/Hibernate/Shutdown) to S0.
- This is implemented for Win 8.1/8/7.

Command line options:

- IBTSIVA=TRUE
- IBTSIVA=FALSE

By default, iBTSiva is not enabled.

How it works:

- iBTSiva will monitor the device node with hardware id "USB\VID_8087&PID_07DC" for 60secs.
- If it detects a YB or the device node is not present, it issues a hardware reset to the Bluetooth card. After 60sec it stops monitoring the device node, until the next Sx->S0 transition.

(Note: After the installation is complete, go to services.msc and look for "Intel Bluetooth Service". This should be in running state)

Microsoft Errata

Errata 3102:

Windows 8.1 systems that has WiFi but doesn't have Bluetooth.

After setup the environment for test on HCK, we found that Bluetooth related items are appearing.

Details:

Delayed Enforcement of Bluetooth in Systems (Except for Tablet or Convertible Product Type)

Expires: 1/1/2015

Requirement:

System.Client.BluetoothController.Base.BluetoothRequiredIfWiFiPresent

Supported OS: Windows 8 x86/x64; Windows 8.1 RT;
Windows 8.1 x86/x64; Windows RT

Installer Options

- To install only the patch drivers (without RF Kill service)
`msiexec /i "Intel Bluetooth.msi" /q AddLocal=BlueToothHost
Remove=SWRFBKILL`

(Note: Remove=SWRFBKILL

Option was developed for customers who rely on HW RF Kill)

- To install all the components (patch drivers and SW RF Kill service)

`msiexec /i "Intel Bluetooth.msi" /q
AddLocal=BlueToothHost,SWRFBKILL`

- To un-install the existing installation, this will un-install all features.

`msiexec /x "Intel Bluetooth.msi" /q`

Install Options Continued

- SUPPORTREMOTEWAKEUP=TRUE/FALSE -- This property when set to TRUE, will add the registry keys that will enable the remote device wakeup. The default value is FALSE and so these keys are not added.
 - Example: To install only the patch driver (without RF Kill service) and to add the registry keys for remove wakeup support
 - `msiexec /i "Intel Bluetooth.msi" /q
AddLocal=BlueToothHost Remove=SWRFBKILL
SUPPORTREMOTEWAKEUP=TRUE`

Note about BTHS:

Starting Woodway BT 3.1.1309, together with the 16.1.1 WiFi release, shall have Bluetooth High Speed (BTHS) disabled by default.

BTHS shall not be supported on WP1, and WP2 under Windows 7. BTHS shall be maintained for previously supported configurations.

- Upgrade scenario: This means say you have machine with 16.0/3.0.x. Since BTHS is supported on 3.0, installation-update of 3.0 to 16.1.1/3.1.1309 shall have BTHS enabled by default.
- Clean install: Suppose you are installing the TIC#WWBTW0491_3.1.1309 PV on machine, then BTHS shall not enabled by default.

There is a command line option to enable BTHS in Win8 and Win8.1 if OEM desires: SupportHS=TRUE

Example: setup.exe SupportHS=TRUE

Bluetooth Logging



Bluetooth Logging:

Please use this trace kit to capture logs: (version 1.6)

<https://backup.filesanywhere.com/fs/v.aspx?v=8c6f68875c6072bd729b>

Steps:

1. Install TIC/FW
2. Start logging
 - a. Open cmd prompt with admin rights
 - b. Run `tracstart`
3. Repro the issue.
4. Stop logs
 - a. Run `tracstop`
5. Zip and attach the traces from `Intel_Bluetooth_Traces` folder on the desktop to the defect.

Please note: Refer to `usage.txt` under the above trace kit link for more details.

WHCK BKC - Updated



Contents

- System WHCK BKC
- Test Details:
 - System - Bluetooth 2.1 Logo Tests (Windows v6.3)
 - System - Bluetooth AOAC Logo Tests (Windows v6.3)
 - System - Bluetooth Inband SCO Tests (Windows v6.3)
 - System - Bluetooth LE Dual-Mode Logo Tests (Windows v6.3)
 - System - Bluetooth LE Logo Tests (Windows v6.3)
 - System - Point to Point Tests (Windows v6.3)
 - System - Radio On-Off Logo Tests (Windows v6.3)
 - Lullaby Test (System)
 - System - Sleep and PNP (disable and enable) with IO Before and After (Certification)
- Bug Submission Details

System WHCK BKC

▪ **WHCK Set up:**

- WHCK kit: 8.1 RTM
- Download Latest QFE updates + latest Filters from Microsoft [currently available QFE update 03 + recent dated filters]
- DHCP Server configured (IPv4 and IPv6)
- Default Gateway Configured. Make sure HCK Controller & All Clients can PING the default gateway
- Tests executed in quiet environment [RF shielded] - Recommended

▪ **Clients [DUT and SUT] Details:**

- Same BKC to be followed on all Clients [DUT and SUTs]
- Platform: Shark bay (XHCI setting)
- OS: Windows RTM builds
- WiFi/BT SKU: WP card on all Clients [DUT and SUT]
- Same TIC installed on DUT and SUT
- Controlled network is Ethernet [recommended]
- For BT tests, If in any case, OEMs using Controlled network as WiFi, please run test with 5GHz AP.

System - Bluetooth 2.1 Logo Tests (Windows v6.3)

- Follow the BKC as specified in “System WHCK BKC” slide.
- In addition, if testing on CS platform, all Clients need to be CS platforms. Similarly for Non-CS platforms
- Under Bluetooth settings window, make sure all settings are default (no changes done after install of BT and disconnect any BT devices already connected)
- Run test through HCK Controller. IF FAILURE occurs:
 - Apply Filters after the test is completed with error
 - If test still fails with filters, then rerun test by rebooting only the secondary platform
 - If test still fails, switch Primary system as Secondary and similarly Secondary as Primary and rerun test.
 - For each failed test run, Capture .etl log with “ENABLETRACING = TRUE”
 - When submitting defect, Please forward all logs (HCKx package log, .etl log). Also provide info as per Bug Submission Details slide in backup.
- If test still FAILS, Run test Manually. Got errata approved from Microsoft to use this method and can submit logs for this test.

[Procedure for manual execution can be obtained from CAE]

System - Bluetooth Inband SCO Tests (Windows v6.3)

- Follow the BKC as specified in “System WHCK BKC” slide.
- In addition, if testing on CS platform, all Clients need to be CS platforms. Similarly for Non-CS platforms
- IMPORTANT: This test is noise sensitive and need to be run in quite environment (RF shielded screen room)
- Under Bluetooth settings window, make sure all settings are default (no changes done after install of BT and disconnect any BT devices already connected)
- If test still fails, switch Primary system as Secondary and similarly Secondary as Primary and rerun test.
- Rerun test with “ENABLETRACING = TRUE” which captures .etl logs
- Please forward all logs (HCKx package log, .etl log) and details as per Bug Submission slide in backup

Other Bluetooth specific tests

- System - Point to Point Tests (Windows v6.3):
 - Follow the BKC as specified in "System WHCK BKC" slide
 - Follow the instructions similar to test "System - Bluetooth 2.1 Logo Tests (Windows v6.3)
- For other below tests, Please follow the BKC:
 - System - Bluetooth AOAC Logo Tests (Windows v6.3)
 - System - Bluetooth LE Dual-Mode Logo Tests (Windows v6.3)
 - System - Bluetooth LE Logo Tests (Windows v6.3)
 - System - Radio On-Off Logo Tests (Windows v6.3)
- For all failures, Rerun test with "ENABLETRACING = TRUE" which captures .etl logs. Forward all logs (HCKx package log, .etl log) and details as per Bug Submission slide in backup

Lullaby Test (System)

- Follow the BKC as specified in “System WHCK BKC” slide.
- All drivers are installed (no yellow bangs in device manager)
- Under Bluetooth settings window, make sure all settings are default (no changes done after install of BT)
- Connect BT device [Nokia BH-118 headset device recommended]
- For using other devices, there is an Errata from Microsoft

System – Sleep and PnP test

- Follow the BKC as specified in “System WHCK BKC” slide.
- All drivers are installed (no yellow bangs in device manager)
- Client communicates to controller using USB-to-Ethernet cable. Need to have IPv6 address of the server. In this scenario, don’t connect Client to AP.
- Setup Access Point in same subnet as HCK Controller and Client. Need to have the WiFi profile configured on the AP to be WPA2+PSK+AES.
- Under Bluetooth settings window, make sure all settings are default (no changes done after install of BT and disconnect any BT devices already connected)
- SuperMUTT device need to be connected to Client for the test to run.
- Enter the SSID, password & IPv6 address in the parameters section when start test.

Bug Submission Details

1. HCK version being used and QFE + Filters dated?
2. Primary & Secondary platforms used (are these available in JF?)
3. Connection between HCK Controller and All Clients [eth or WiFi]?
4. WP SKU ver (WP1 NGFF / WP2 NGFF [AC / BGN ..])
5. BT TIC & WiFi TIC
6. Test ran in screen room?
7. How many attempts test was run? Failure rate?
8. For Failed tests, Capture .etl logs by "Enable Tracing = TRUE".
9. Provide HCKx package logs & .etl logs for all the attempts done.
10. Windows updates done and when?

