



Intel® PROSet/Wireless for Bluetooth Technology Software 19.11 SP PV Software Release iBTW0667

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Release Overview

Intel is pleased to announce the Bluetooth 19.11 SP PV release.

The intended audience of this document are OEM/ODM customers.

General Information

Bluetooth Software Build

- TIC # iBTW0667
- Intel Driver Ver#19.11.1639.649
- MOT Driver Ver#19.0.1607.640 (Win7 only)
- VIP Kit # 118753

Tested Platforms

- Skylake
- Broadwell
- Cherry Trail
- Kaby Lake

Supported Hardware

- Windstorm Peak(WsP)/8265
- Sandy Peak(SdP)/3168
- Snowfield Peak(SfP) / 8260
- Douglas Peak(DgP) / 18260 (WiGig)
- Maple Peak (MP)/17265 (WiGig)
- Stone Peak 2 (StP2) / 7265
- Stone Peak 1 (StP1) / 3165
- Wilkins Peak 2(WP2) / 7260
- Wilkins Peak 1(WP1) / 3160

Supported Operating Systems on Adapter

- WP/StP/7265-C0: Windows 7 – 32/64bit; Windows 8.1 – 32/64 bit; Windows 10 – 32/64 bit
- StP/7265-D0: Windows 7 – 32/64bit; Windows 8.1 32/64bit; Windows 10 – 32/64 bit
- SfP/8260: Windows 7 – 32/64bit; Windows 8.1 – 64 bit; Windows 10 – 64 bit
- SdP/3168: Windows 7- 32/64; Windows 8.1 –32/64 bit; Windows 10 – 32/64 bit
- WsP/8265: Windows 7 – 32/64bit; Windows 8.1 – 64 bit; Windows 10 – 64 bit

Release Details

Adapters	Release (H layout is FW only)	Intel Driver	MOT Driver
WsP/8265 SdP/3168 SfP/8260 DgP/18260 MP/17265 StP2/7265 StP1/3165 WP1/3160 WP2/7260	iBTW0667G (see table for usage) iBTW0667H (see table for usage)	19.11.1639.649	19.0.1607.640

VIP Kit #: 118753

WHQL Certified For:

WP/StP/7265-CO: Windows 7 - 32/64bit; Windows 8.1 - 32/64 bit;
 Windows 10 - 32/64 bit
 StP/7265-DO: Windows 7 - 32/64bit; Windows 8.1 32/64bit;
 Windows 10 - 32/64 bit
 SfP/8260: Windows 7 - 32/64bit; Windows 8.1 - 64 bit; Windows 10
 - 64 bit
 SdP/3168: Windows 7- 32/64; Windows 8.1 -32/64 bit; Windows 10
 - 32/64 bit
 WsP/8265: Windows 7 - 32/64bit; Windows 8.1 - 64 bit; Windows
 10 - 64 bit

Release Usage Table	Adapter	WIN7 (MOT)	WIN7 (MSFT)	WIN8.1 (MOT)	Win8.1 (MSFT)	Win10 (MSFT)
	WP	G	H	NA	G	G
	StP	G	H	NA	G	G
	SfP	G	H	NA	G	G
	SdP	N/A	H	NA	G	G
	WsP	G	H	NA	G	G

New Bluetooth Features/Software Enhancements

This is a SP (Service Pack) release and is focused on defect corrections only

Important Notes about this Release

This PV release has been certified for Win10 Redstone 1 (RS1).

INF install supported for Win10 on WsP, SdP, WP, StP, and SfP.

- The INF directory includes an ibtusb, and ibtuart and ibtfltcoex folders. These correspond to USB based devices, UART based devices and Jackson Peak devices.

IBTSIVA is ON for all HW/SW combinations

A change was made to a folder name in the Win10 INF_INSTALL directory. The SFP folder was renamed to LNP. LNP and SFP have identical SW. Functionality is not impacted.

INF_INSTALL/Win10/x64/ibtusb

LNP ← (previously named SFP)

SDP

STP

WP

WSP

Known Issues & Limitations – 19.11

NIC/OS	Defect ID	Description	Comments
WsP/Win7	MWG100263816	Driver has yellow bang in Device Manager immediately after installation for more than a minute then is able to recover	Limited to a specific OEM and only to couple of their platforms but automatically recovers after 2 minutes. Failure rate is <25%
StP/WsP/Win7	MWG100264303	Low OPP throughput when transferring a file during A2DP streaming with a BLE or HID mouse paired	Only impacts OPP tput. Tput sometimes drops below 50Kbps instead of 100Kbps but everything works.
StP/SfP/WsP/Win7/Win10	MWG100264377	Low throughput and/or low MOS score encountered during send/receive file while streaming HFP audio	Uncommon use case OPP file transfer.. File transfer speed is degraded and sometimes MOS is degraded also but all profiles still work.
WsP/Win10	MWG100264151	After uninstalling driver during re-install and uninstall test cases, device won't enumerate in Device Manager	Caused by older BT version in MSFT Dynamic Update. Dependency on MSFT. End-user will need to manually update if this issue encountered. Only happens when upgrading from Win7 to Win10.
SdP/SfP/WsP/Win7	MWG100264421	BT HFP connection running on Win7 dropped after pairing to second platform with Win10	Still under investigation – Role switch test but may be expected behavior between Win7 and Win10. Not a typical end-user scenario part of an internal test plan.
SfP/Win7	MWG100264945	BT LE KB and MSE resume S3_S4 reconnect sometimes takes more than 5 seconds	Reconnect is always successful just slower than it should be.
SfP/Win7/Win10	MWG100265663	Power consumption is increased after enabling SW RF kill	BT idle current increased by ~3ma when using SW RF Kill function. Normal BT current drain is not impacted.

Corrected Issues – 19.11

NIC/OS	Internal Defect ID	Description	Fix Comments/Root Cause
WsP/Win10	MWG100263963 MWG100260561	Bluetooth shows yellow bang after restart when using a specific OEM procedure	Due to windows kernel mode constraints the path to the drive name (C, D, etc) must be absolute. Previously we used the "BootDir" registry key for the drive name but this proved inadequate for one of our customers so switched to "InstallerLocation" registry key.
SfP/Win10	MWG100263688	"ibtusb.sys" can't uninstall from Windows system	Custom Action to delete the file was not running with Admin privileges. Made changes to that the action is now run with the right privileges.
SdP/WsP/Win7	MWG100264249	YB code 43 while running S3, S4 cycles with KBD and Mouse connected	Firmware sometimes takes more than 1sec to respond to a HCI reset command and previously a 1s timer was used, so when the timer expired it would cause a fault. This was fixed by increasing the timer value.
WsP/Win10	MWG100264610	Bluetooth can halt in case where AP connected, streaming to headset and doing OPP file transfer or has BT scan window open for over 15 minutes	Due to an error in slot calculation, transmit was restricted to only odd numbered slots. This impacted throughput and resulted in unexpected behavior. The calculation was corrected and proper performance was restored
SdP/Win7	MWG100264422 MWG100264254	With BT headset is connected user is not able to pair/connect to a second BT enabled platform	The case when a role switch failed was not fully implemented and this resulted in a missed authentication step which ended up in the link being dropped. The missing code was added and the issue has been resolved.
WP/StP/Win10	MWG100263325	WHCK issue with RS1 (UsbScoDataTransportLayer fail on FullDuplexDataTransfer) on StP/CO	This failure was due to a bad code merge. The code was reviewed and corrected.
All/All	MWG100261760	The lbtver does not display the correct HW string for some adapters	Coding mistake resulted in the wrong HW being reported.

Corrected Issues – 19.11

NIC/OS	Internal Defect ID	Description	Fix Comments/Root Cause
SfP/Win10	MWG100265044 MWG100264281 MWG100263952 MWG100263556 MWG100264762 MWG100264304	Bluetooth is missing from the Device Manager after S3/S4 and hybrid S5	Older OTP had authentication error when both WiFi and BT download firmware at same time. Fix is to detect the older OTP and then give enough time for WiFi FW to download before starting BT FW download. This result in slower FW download but YB no longer observed.
WP2/Win7	MWG100264678 MWG100264679 MWG100264680	BSOD (BugCheck 50) occurs after installing new Bluetooth driver and v17.x WiFi	A change was made to WiFi code which impacted ibtsiva functionality. Fix was to adjust ibtsiva to detect different WiFi versions and allocate appropriate memory for proper communication.
WsP/Win7	MWG100262127 MWG100260404	BLE Mouse and Keyboard take too long to reconnect (more than 5s)	FW download procedure was optimized for speed by changing the packet download protocol. This change only works for WsP. A separate change is needed for SfP (MWG100264945)
All/Win10	MWG100265103 MWG100265104 MWG100265028 MWG100265372	BT device name is broken in Device Manager	Impacted languages that required 2 byte characters. Tool auto changed to UTF-8.
WsP/Win10	MWG100265144	The text layout of BT installation window is broken	Clip art and localized text direction were misaligned. Scripting error.

Corrected Issues – 19.11

NIC/OS	Internal Defect ID	Description	Fix Comments/Root Cause
WP1/StP1/All	MWG100264814	Some adapters disappears after Sx transition (observed on WP1)	Non-WP2 cards that encountered a YB were not being soft-reset.

Issues no longer observed/Closed for other reasons

NIC/OS	Defect ID	Title	Comments
WsP/Win10	MWG100259125	EventID17 on BTHUSB While Running S3 or S4 cycles	Specific OEM provided a BIOS fix and issue is no longer observed
StP/D0	MWG100260855	A2DP can be choppy on reconnect when power off/on a headset for about 30-40 seconds. – 2 test of 4 failures	Defective headset. Another one of the same model was tried and it worked fine.
WsP / Win8.1, Win10	MWG100256725	After wake up from S3 to S4 transition the Bluetooth shows as yellow bang	Microsoft Issue resolved with TH2 KB 3156421
SfP/Win10	MWG100239677	BT Yellow bang on Code 43 while timer set to transfer from S3 to S4 then resume	MSFT Issue - MSFT provided WU release #3156421 that fixes the issue
SfP/All OS	MWG100262698	Toggle RF Kill 100x test cannot complete 100 cycles	Internal Automated test. Test setup issue confirmed
WsP/SfP/All OS	MWG100260732	Driver version is not consistent between DM, DM details and Program and features	MSFT controls this display
WsP / Win10	MWG100256764	AVRCP does not work while the DUT is in CS	(closed, cannot use AVRCP in CS)
SfP/Win7	MWG100258426	BSOD (0x9F) occurred when run WinPVT WMI Stress overnight. (closed not a defect)	Only reproduced on a specific OEM laptop. Closed on BT side and moved to Wifi team.
SfP/Win10	MWG100259487	Intel 8260 BT show error message.FR:4/25	Closed on Intel side. MSFT indicated this is fixed in RS1.
StP/SdP/SfP/WsP/Win10	MWG100263149	YB on BT driver during internal stress test	No longer observed

Validation Guidance – 19.11 PV

Testable

Testable with comment

Blocked

Functional Area	WsP Beta	19.0 PC	19.0 PV	19.01 PV	19.11 PV	Notes for This Release (see known Issues and Limitations for more details)
OPP						
AVRCP						
A2DP						
ACPI						
SPP						
FTP						
HFP						
HID						
Multi Profile						
BLE HID						
PAN						
PBAP						
RF Kill						
Connected Stby						
Power Consumption						
Wake						
Sx transitions / Stability						
WiFi/BT Coex						
Installation / Upgrade						
Selective Suspend						
Device WHCK Pass Rate						

BT 19.x Release History

Milestone Release Name	Date	BT TIC	BT KIT
19.0 WsP Beta	Released ww17	AHBTW1296	115390
19.0 PC	Released ww21	IBTW0148	116037
19.0 PV MR	Released ww23	IBTW0191	116265
19.01 PV SP	Released ww31	iBTW0285	117361
19.02 PV SP	Released ww33	iBTW0358	117788
19.10 PV MR	Released ww38	iBTW0518	118332
19.11 PV SP	Released ww42	iBTW0667	118753

This Release →

BT19.0

Schedule, Features and POR
CDI Document # 567669



Glossary

PC = Production Candidate – Part of the initial software series on a new adapter (e.g. alpha, beta, PC, PV)

PV = Production Version – Software that is approved for shipping

SP = Service Pack – an intermediate release between major release. It usually only has defect corrections.

MR = Major Release – Includes new features and defect corrections.

HF = Hot Fix – a software release with minimal change. Created to resolve an urgent customer need.

Ibtsiva – Software service that runs after certain sleep cycles and restarts the BT device upon YB detection

YB – Yellow exclamation mark in device manager. Indicates that a driver is not functioning properly

SfP – Snowfield Peak; WsP – Windstorm Peak; SdP – Sandy Peak; StP – Stone Peak; WP – Wilkins Peak;

DgP – Douglas Peak; MP – Maple Peak

Previous Release Slides

Known Issues & Limitations – 19.10 PV ibtw0xxx

NIC/OS	Defect ID	Description	Comments
SfP/WsP/all OS	MWG100258196 MWG100257333 MWG100258438 MWG100263414 MWD100257333	COEX Related Tput issues	Plan to correct in future release
WP/StP/Win10	MWG100263325	WHCK issue with RS1 (UsbScoDataTransportLayer fail on FullDuplexDataTransfer) on StP/C0	Will be fixed in 19.11
StP/Win7	MWG100260753	COEX: Low Mos Score in during Wifi Tx and Rx traffic	MOS score 2.68
WsP/Win7,Win10	MWG100260754	COEX:Low Mos Score in during Wifi Associated or Wifi Tx or Rx traffic	MOS score 1.9-2.5; passing score is 3.5
SfP/Win7	MWG100258438	COEX:Low Mos Score in during Wifi Tx on	MOS score 1.525
WsP/Win7	MWG100260754 MWG100258438	COEX: Low Mos Score in during Wifi Associated or Wifi Tx or Rx traffic	Will be fixed in future release
WsP/Win10	MWG100258196 MWG100259448	Low OPP Throughput for Send and Receive traffic along with Wifi traffic	Will be fixed in future release
WsP/Win7	MWG100263816	Driver has yellow bang in Device Manager immediately after installation for more than a minute then is able to recover	Will be fixed in future release
StP/WsP/Win7	MWG100264303	Low throughput when transferring a file during A2DP streaming with a BLE or HID mouse paired	Tpt drops to 20Kbps instead of 100Kbps but all profiles still work.
StP/SfP/WsP/Win7/Win10	MWG100264377	Low throughput and/or low MOS score encountered during send/receive file while streaming HFP audio	Multi profile issue. File transfer speed is degraded and sometimes MOS score is also

Known Issues & Limitations – 19.10 PV ibtw0xxx

NIC/OS	Defect ID	Description	Comments
SdP/Win7	MWG100264422 MWG100264254	With BT headset connected user is not able to pair/connect to DUT2	Only happens on subsequent re-pairing. Fix coming in 19.11
WsP/Win10	MWG100264151	After uninstalling driver during re-install and uninstall test cases, device won't enumerate in device manager	Caused by older BT version in MSFT Dynamic Update. Working with MSFT to update. End-user will need to manually update if this issue encountered.
WsP/Win10	MWG100264610	Bluetooth can halt in case where AP connected, streaming to headset and doing OPP file transfer or has BT scan window open for over 15 minutes	Will be fixed in a later release
StP/Win7	MWG100263943	Yellow Bang - Problem Code 10 - on StP D0	Failure observed 2/1000 trials on BDW/HSW system
StP/SdP/SfP/WsP/Win10	MWG100263149	YB on BT driver during internal stress test	FR 10/1400. Will be fixed in a later released
SdP/SfP/WsP/Win7	MWG100264421	BT HFP connection dropped after pairing to second platform with OS win 7	Still under investigation

Corrected Issues – 19.10 PV ibtw0xxx

NIC/OS	Internal Defect ID	Description	Fix Comments/Root Cause
SdP/Win10	MWG1002263817	Device Yellow Bang - Problem Code 10	This YB was due to the Host timing out before receiving the HCI Reset Command Complete Event. Previously, the timeout was 1 second. With a recent change to FW, HCI reset can take up to 1.5s. To account for this and provide a safeguard, we have increased the HCI command timeout to 4 seconds.
SfP/WsP/Win8.1/Win10	MWG100264300	YB during install on some platforms	ibtsusb driver was changed to look for the install and upgrade registry key in a new location. The new inx generation scripts hadn't integrated this change.
SdP/Win10	MWG1002263817	Device Yellow Bang - Problem Code 10	This YB was due to the Host timing out before receiving the HCI Reset Command Complete Event. Previously, the timeout was 1 second. With a recent change to FW, HCI reset can take up to 1.5s. To account for this and provide a safeguard, we have increased the HCI command timeout to 4 seconds.
SfP/WsP/Win8.1/Win10	MWG100264300	YB during install on some platforms	ibtsusb driver was changed to look for the install and upgrade registry key in a new location. The new inx generation scripts hadn't integrated this change.
SfP/WsP/All OS	MWG100256648	Yellow Bang sometimes observed during upgrade to Win10	Versions older than 18.16.1 only had a 2 part HW ID for WsP and StP which fail to load the correct FW file resulting in a YB. 3rd party SW change to 3 part HW ID corrects this issue.
SfP/Win7	MWG100253400	Device Yellow Bang - Problem Code 10	usb reset disables EP without clearing corresponding interrupt bit
SfP/WsP/Win10	MWG100263188	YB on BT driver (code 43) while running S3/Resume cycles with BT KBd, mouse, Headset connected	Asynchronous WiFi kill action disrupted a BT RX initialization activity resulting in a fatal error. Change was made to handle the RF Kill so that this would not happen.

Corrected Issues – 19.10 PV ibtw0xxx

NIC/OS	Internal Defect ID	Description	Fix Comments/Root Cause
SdP/Win7	MWG100263191	Device Yellow Bang - Problem Code 10	<p>Symptom #1: event and ACL EP stuck due to flushing w/o proper EP disable</p> <p>Symptom #2: event EP stuck due to disabling EP w/o first checking if EP was enabled first in usb reset (SnowfieldPeak had the same problem already addressed in a separate CQ)</p> <p>Impact: on some machines such as E54_1, BT YB and unusable after average 10 cycles of S3, until a full power shutdown and reboot</p>
SfP/Win7	MWG100256935	BT yellow bang(Code 10) when running S3 aging	<p>2 root causes were identified. (1) FW not handling clear_feature (halt) (2) Incomplete host recovery mechanism. The host recovery mechanism was improved to include USB port reset when pipe halt happens.</p>
SfP/WsP/Win7	MWG100261263	Driver has yellow bang in Device Manager immediately after installation	<p>When the iBTUSB driver is installed, it checks the "InstallOrUpgrade" registry key and reset the device to bootloader if this value is 1. Normally, this registry key is installed/created by the INF. For Win7, it uses the Motorola's INF file to install the driver and this key was missing in there. So, the driver never reset the device to bootloader after the first installation, if the device is already running in operational mode.</p> <p>Fix is done in 3 places</p> <ul style="list-style-type: none"> - For RAM based INX, hardcoded the registry key. - Updated build script so it doesn't create the registry key during the build. - Updated the driver to read the registry key from the new location and reset the device.

Corrected Issues – 19.10 PV ibtw0xxx

NIC/OS	Internal Defect ID	Description	Fix Comments/Root Cause
SdP/win7	MWG100263191	Device Yellow Bang - Problem Code 10 - on SDP	Incomplete USB endpoint management Impact: On some machines such as E54_1, BT YB and unusable after average 10 cycles of S3, until a full power shutdown and reboot
StP1/Win10	MWG100256942	With specific OEM application the Bluetooth Device sometimes disappears when resume from S3 & S4. test with F/R 1/10.	Driver was not reading all the buffered responses upon returning to an active state from sleep. An additional improvement was to send an HCI_Reset if one were not sent from the OS.
WsP/win7	MWG100263231	BSOD on 9F X64_0x9F_3_POWER_DOWN_ibtusb_IMAGE_iusb3hub.sys while running S5 cycles	After sending RFKILL command, skip reading the event and let the system exit D0.
StP/SdP/Win10	MWG100262773	Bluetooth disappears randomly from the device manage rand and shows up as unknown device	Improvement in performance after removing a previous software patch.
All Adapters/All OS	MWG100261907 MWG100262423 MWG100262518 MWG100262519 MWG100262746	Bluetooth Stops Working after KB3161608 is install on Win 7	3 rd party SW design made assumption about location of table in MSFT nttdll.dll. MSFT made change that caused table location to move and thus resulted in impaired BT functionality. Additional information available from Intel account managers.

Corrected Issues – 19.10 PV ibtw0xxx

NIC/OS	Internal Defect ID	Description	Fix Comments/Root Cause
SfP/WsP/Win10	MWG100256041 MWG100244910 MWG100259003	BT Failed to auto repair with headset after RF Kill On, cycle Sx, RF Kill off	<p>When the windows host enters different power save modes, it is supposed to release the existing connections gracefully. If the existing connections are not closed gracefully, the remote devices wait for the connection time-out before trying to re-connect back. During this time if the other device stops trying to connect, it may not connect back at all. This problem will be seen when we go to these power save modes but come back quickly before normal timer expiry.</p> <p>The correction is that during a HCI_reset with existing connections then the controller initiates the disconnection with the remote devices</p>
StP D1/Win10	MWG100258250	During BLE HID movement, BT lag and Wifi Tpt reduced	BT lag issue fixed . Only seen on StP D1 during LE HID movements
StP/Win10	MWG100256735 MWG100259047	Hardware information shows unknown on Intel®Wireless Bluetooth® Properties	The issue is that when ibtproppage dll is called with insufficient privilege, the IOCLT to read fw version from the dll fails and the BT property page is populated with the statement "Unknown" device. To fix the issue, ibtproppage dll is enhanced to read the version from the registry which is kept updated by the driver.
StP/SdP/SfP/WsP /Win7	MWG100260040 MWG100262772	ibtsiva not present after Upgrade install scenario	"There are multiple version numbers in Intel's Bluetooth software for Windows 7. There is the version recorded inside the installer itself, in the MSI file, that is built by Motorola. In addition there is a driver added to the build by Intel, that has its own version number. The previous version of the Motorola installer did not properly handle a situation that resulted from a Microsoft behavior that the installation framework does not install new files if they are older than what is currently on the system, which in a complex scenario could result in ibtsiva.exe getting removed from the users system during the upgrade."

Corrected Issues – 19.10 PV ibtw0xxx

NIC/OS	Internal Defect ID	Description	Fix Comments/Root Cause
SdP/StP1/Win10	MWG100254549 MWG100256328 MWG100256329 MWG100260396	EDR HID Mouse movement is lagging when listening to A2DP audio	Resolved by raising priority of the mouse activity
SfP/Win10	MWG100255362 MWG100253351 MWG100257328 MWG100261863 MWG100261864	Low WiFi TpT when BT is Connectable Discoverable	Some packets should have been filtered out from the calculation. This filtering was added.
StP/SdP/SfP/WsP	MWG100258441	MS Arc Touch mouse has issues connecting to DUT	Changed the behavior of the controller to close the connection when we don't have Rx buffers even when peer sets MD bit to one, but we don't close the connection event when we have Tx data to send (Tx MD bit was also set by us).
SfP/Win10	MWG100257492	AHBTW1264_18.1.1601.06 has included un-signed driver "ibtfcoex"	Removed driver from build and package process
SfP/Win10	MWG100255777	EDR HID Laggy while reconnection when connected with A2DP and HID BLE, with WiFi traffic	Sniff attempt/timeout priority is lower than A2DP in BT scheduler. Some poorly behaving mice send out invalid DSniff sniff requests and skip every other sniff anchor point polling.
WP2+/All OS	MWG100261373	Bluetooth MSI Install logging not on by default	DCR 5007 Code was missing from PV files for the MSI

Issues no longer observed/Closed for other reasons

NIC/OS	Defect ID	Title	Comments
WsP/Win10	MWG100259125	EventID17 on BTHUSB While Running S3 or S4 cycles	Specific OEM provided a BIOS fix and issue is no longer observed
StP/D0	MWG100260855	A2DP can be choppy on reconnect when power off/on a headset for about 30-40 seconds. – 2 test of 4 failures	Defective headset. Another one of the same model was tried and it worked fine.
WsP / Win8.1, Win10	MWG100256725	After wake up from S3 to S4 transition the Bluetooth shows as yellow bang	Microsoft Issue resolved with TH2 KB 3156421
SfP/Win10	MWG100239677	BT Yellow bang on Code 43 while timer set to transfer from S3 to S4 then resume	MSFT Issue - MSFT provided WU release #3156421 that helps fix the issue
SfP/All OS	MWG100262698	Toggle RF Kill 100x test cannot complete 100 cycles	Internal Automated test. Test setup issue confirmed
WsP/SfP/All OS	MWG100260732	Driver version is not consistent between DM, DM details and Program and features	MSFT controls this display
WsP / Win10	MWG100256764	AVRCP does not work while the DUT is in CS	(closed, cannot use AVRCP in CS)
SfP/Win7	MWG100258426	BSOD (0x9F) occurred when run WinPVT WMI Stress overnight. (closed not a defect)	Only reproduced on a specific OEM laptop. Closed on BT side and moved to Wifi team.
SfP/Win10	MWG100259487	Intel 8260 BT show error message.FR:4/25	Closed on Intel side. MSFT indicated this is fixed in RS1.

Known Issues & Limitations – 19.01 PV iBTW0285

NIC/OS	Defect ID	Description	Comments
StP D1/Win10	MWG100258250	During BLE HID movement, Wifi Tpt impacted	Partial fix - BT lag issue fixed – Wifi tput issue WIP – Only seen on StP D1 during LE HID movement
WsP / Win10	MWG100258196	OPP TPT less than POR	Plan to correct in future release
WsP / Win10	MWG100256764	AVRCP does not work while the DUT is in CS	Plan to correct in future release
SfP/Win7	MWG100258426	BSOD (0x9F) occurred when run WinPVT WMI Stress overnight.	Only reproduced on a specific OEM laptop. Closed on BT side and moved to Wifi team.
SfP/Win10	MWG100259487	Intel 8260 BT show error message.FR:4/25	Closed on Intel side. MSFT indicated this is fixed in RS1.
StP/SdP/SfP/WsP/Win7	MWG100260040/ MWG100262772	ibtsiva not present after Upgrade install scenario – win 7 only	Planned to be fixed in 19.11 PV (ww36) – In an upgrade scenario from an older Bluetooth driver version to this driver version Ibtstva will not work until the driver installation is repaired. Expected impact to end users is considered low.
SfP/WsP/all OS	MWG100258196, MWG100257333, MWG100258438, MWG100260750	Low OPP Throughput for Send and Receive traffic along with Wifi traffic/Low BT OPP Tx/Rx TPT while WiFi Tx/Rx traffic/Low Mos Score in during Wifi Tx on [Win7 :DUT + BrcM NUC :BTOE]/Low OPP Throughput for Send traffic along with Wifi on and Associated & Wifi Rx/Tx.	Plan to correct in future release

Known Issues & Limitations – 19.01 PV iBTW0285

NIC/OS	Defect ID	Description	Comments
StP/Win7	MWG100260753	Low Mos Score in during Wifi Tx and Rx traffic	MOS score 2.68
WsP/Win7,Win10	MWG100260754	Low Mos Score in during Wifi Associated or Wifi Tx or Rx traffic	MOS score 1.9-2.5; passing score is 3.5
SfP/Win7	MWG100258438	Low Mos Score in during Wifi Tx on	MOS score 1.525
SdP/StP/Win7, Win10	MWG100260750	Coex]Low OPP Throughput for Send traffic along with Wifi on and Associated.	Fix coming in next release
SfP/All OS	MWG100262698	Toggle RF Kill 100x test cannot complete 100 cycles	Internal Automated test. Test setup issue suspected
WsP/SfP/All OS	MWG100260732	Driver version is not consistent between DM, DM details and Program and features	Will be fixed in future release
SfP/WsP/Win10	MWG100256041 MWG100244910 MWG100259003	BT Failed to auto repair with headset after RF Kill On, cycle Sx, RF Kill off	Will be fixed in future release
WsP/Win7	MWG100260754, MWG100258438	Low Mos Score in during Wifi Associated or Wifi Tx or Rx traffic (Coex) Observed with WiFi STHWFW0298	Will be fixed in future release
WsP/Win10	MWG100258196 MWG100259448	Low OPP Throughput for Send and Receive traffic along with Wifi traffic (Coex) Observed with WiFi STHWFW0298	Will be fixed in future release
SfP/Win7	MWG100257333	Low BT OPP Tx/Rx TPT while WiFi Tx/Rx traffic (Coex) Observed with WiFi STHWFW0298	Will be fixed in future release
SfP/Win10	MWG100260750	Low OPP Throughput for Send traffic along with Wifi on and Associated & Wifi Rx/Tx.(Coex) Observed with WiFi STHWFW0298	Will be fixed in future release

Corrected Issues – 19.01 PV iBTW0285

NIC/OS	Internal Defect ID	Description	Fix Comments/Root Cause
StP/SdP/SfP/WsP/Win7	MWG100260039	ibtsiva not present after Repair install scenario	The first attempt to run ibtsiva would sometimes fail because the firmware download was not yet complete. The fix was to add a delay when VID/PID not seen immediately.
SfP/Win7	MWG100256935 MWG100259424 MWG100259072 MWG100252350/ MWG100260436	BT yellow bang(Code 10) when running S3 aging	See Technical Advisory - MWG100256935_YB_during_S3_Aging_Test
WsP/Win10	MWG100262089	Memory leak issue occurred during S3 by ibtsiva.exe.	Within a while loop a buffer was being allocated to the same pointer. The delete/free routine was outside of the while loop. When more than 1 devId was found in the registry the leak occurred
SfP/All OS	MWG100255362 MWG100257328 MWG100261863 MWG100261864	Low WiFi TpT when BT is connectable, discoverable/Low WiFi TPT while BT discoverable/Wifi Throughput result is low with 18.40.2.1 WiFi driver with 19.0.x bluetooth driver enabled/WiFi Throughput decreased if pairing BT mouse on Win7	Rejected package content was included in AGG TL calculation

Issues no longer observed

NIC/OS	Defect ID	Title	Comments
WsP/Win10	MWG100259125	EventID17 on BTHUSB While Running S3 or S4 cycles	Specific OEM provided a BIOS fix and issue is no longer observed
StP/D0	MWG100260855	A2DP can be choppy on reconnect when power off/on a headset for about 30-40 seconds. – 2 test of 4 failures	Defective headset. Another one of the same model was tried and it worked fine.
WsP / Win8.1, Win10	MWG100256725	After wake up from S3 to S4 transition the Bluetooth shows as yellow bang	Microsoft Issue resolved with TH2 KB 3156421
SfP/Win10	MWG100239677	BT Yellow bang on Code 43 while timer set to transfer from S3 to S4 then resume	MSFT Issue - MSFT provided WU release #3156421 that helps fix the issue

Known Issues & Limitations – 19.0 PV iBTW0191

NIC/OS	Defect ID	Description	Comments
StP D1/Win10	MWG100258250	During BLE HID movement, Wifi Tpt impacted	Partial fix - BT lag issue fixed – Wifi tput issue WIP – Only seen on StP D1 during LE HID movement
StP/SdP/SfP/WsP/Win7	MWG100260040	ibtsiva not present after Upgrade install scenario – win 7 only (CQ says closed but don't see it in Ramin's release info)	Planned to be fixed in 19.11 PV (ww36) – In an upgrade scenario from an older Bluetooth driver version to this driver version Ibtsiva will not work until the driver installation is repaired. Expected impact to end users is considered low.
WsP / Win8.1, Win10	MWG100256725	After wake up from S3 to S4 transition the Bluetooth shows as yellow bang	Microsoft Issue resolved with TH2 KB 3156421
WsP / Win10	MWG100258196	OPP TPT less than POR	Plan to correct in future release
WsP / Win10	MWG100256764	AVRCP does not work while the DUT is in CS	Plan to correct in future release
SfP/Win7	MWG100256935 MWG100259424 MWG100259072	BT yellow bang(Code 10) when running S3 aging	Plan to correct in future release
SfP/Win7	MWG100258426	BSOD (0x9F) occurred when run WinPVT WMI Stress overnight.	Plan to correct in future release
SfP/Win10	MWG100259487	Intel 8260 BT show error message.FR:4/25	Joint investigation MSFT/Intel - ongoing

Corrected Issues – 19.0 PV iBTW0191

NIC/OS	Internal Defect ID	Description	Comments
WsP / Win10	MWG100259683	Unable to find devices in inquiry window after installing the bluetooth driver	
SdP/WsP/Win10	MWG100260039	ibtsiva not present after Repair install scenario	
WP2/all	MWG100244881	IBTSIVA does not work properly ... WiFi OID didn't get digital HW reset signal from iBT(buffer too short)	Issue occurred due to code refactoring
WsP / all	MWG100259047/ MWG100256735	Intel 8265 BT show "Unknown" and different FW version in hardware tag/ Hardware information shows unknown on Intel®Wireless Bluetooth® Properties	
WsP/ Win8.1	MWG100257488	System WHQL - Bluetooth Point to Point Tests (Windows v6.3) failure	
WsP / all	MWG100258038	The Hardware tab for the WsP BT adapter in Device manager shows the BT adapter as Unknown.	
StP/Win8.1	MWG100256942	Use Bluetooth Lock to Work(lock&unlock screen), The Bluetooth Device sometimes disappear when resume from S3 & S4. test with F/R 1/10.	
SfP/Win7	MWG100253496	BT Speaker doesn't reconnect after BT speaker power off>on	
StP/SdP/Win8.1	MWG100250303	Headset disconnects in random (~10mins) during HFP connection (fixed bug, to use 1 patch vector instead of occupied 3 vectors).	
SdP/Win7/Win10	MWG100256193	BT A2DP lag with WiFi radio on	

Corrected Issues – 19.0 PV iBTW0191

NIC/OS	Internal Defect ID	Description	Comments
SfP/Win10	MWG100258108	BT HID is lagging while WIFI traffic	
StP/SfP/Win7	MWG100249565	HFP audio becomes corrupted when other profiles are used	
SfP/Win10	MWG100255423	Throughput drop or connection drop happens while surfing internet web site with BT mouse connected	
SfP/Win10	MWG100250420	Specific BT A2DP lagging with WiFi radio on	
WsP/all	MWG100255519	BT HW RF kill inoperative	
WsP/Win8.1	MWG100257384	System WHQL - Bluetooth Inband SCO Test" fails	

Known Issues & Limitations – WsP Beta AHBTW1296

NIC/OS	Internal Defect ID	Description	Comments
WsP / all	MWG100255519	BT HW RF kill inoperative	Planned to correct for PC/PV
WsP / Win8.1, 10	MWG100256725	After wake up from S3 to S4 transition the Bluetooth shows as yellow bang	Microsoft Issue, expected to be resolved in RS1. Microsoft Case Numbers: Windows 10: ID:115092113185494 & ID:215092113185494001, Windows 8.1: ID:115012612322494.
WsP/ Win8.1	MWG100257384	System WHQL - Bluetooth Inband SCO Test" fails	Planned to correct for PC/PV
WsP/ Win8.1	MWG100257488	System WHQL - Bluetooth Point to Point Tests (Windows v6.3) failure	Planned to correct for PC/PV
WsP / all	MWG100258038	The Hardware tab for the WsP BT adapter in Device manager shows the BT adapter as Unknown.	Planned to correct for PC/PV
WsP / Win7	MWG100258447	LE HID does not wake the DUT	Wake function supported with KbL platform only and requires KbL platform BIOS v33.4 (ww16 platform BKC)
WsP / Win7	MWG100258448	HID after wake no mouse movement	
WsP / Win10	MWG100258196	OPP TPT less than POR	Planned to correct for PC/PV
WsP / Win10	MWG100256764	AVRCP does not work while the DUT is in CS	Planned to correct in future release

Fixed Issues – WsP Beta AHBTW1296

NIC/OS	Internal Defect ID	Description	Comments
SfP, WsP / Win10	MWG100250420	BT A2DP lagging with WiFi radio on	Some devices have been found not to comply with power control as defined by BT SIG spec. Disabled ATPC pending longer term solution.
SfP, WsP / Win10	MWG100255423	Throughput drop or connection drop happens while surfing internet web site with BT mouse connected	Adjust WiFi higher priority + force Dynamic SMPS
All / Win7	MWG100253496	BT Speaker doesn't reconnect after BT speaker power off>on	Corrected state machine in disconnect flow
SfP, WsP / Win10	MWG100256942	Bluetooth Device sometimes disappear when resume from S3 & S4	Ensure driver flushes out device FIFO buffer, additionally driver sends HCI Reset if MSFT stack does not send one on entry into Sx scenarios
WsP / Win7	MWG100255207	firmware files not getting copied to System32/drivers folder on Win7	Changed build_sw.csv file to add WSP files in "Intel Bluetooth.msi_Update\seq\" folder so that Win7 MSI can pick them up.
WsP / Win7	MWG100255138	OPP RX while Master fails to connect or drops connection during multi-profile	Corrected PB_RCC_ARQN implementation
SfP, WsP / Win10	MWG100240944	Response to HCI_Read_Local_OOB_Data command takes 2.5secs	Increased clock frequency during key calculation to reduce latency
WsP / Win7	MWG100256257	RSSI is not stable when multiple devices are connected	
SfP, WsP / Win7	MWG100255651	BT tray icon disappears, Inquiry in bad state during S5 cycles	Corrected LMP detach implementation
SfP, WsP / Win7	MWG100240208	LE Specification test fails	Corrected LE guard timer implementation
SfP, WsP / Win7, 8.1, 10	MWG100256406	BT Bootloader makes unaligned memory (word) accesses	Corrected memory access misalignment
WdP / Win10	MWG100255286	RF LED light does not change when Bluetooth radio is toggled	Corrected LED control logic
SfP, WsP / Win10	MWG100255427	Barcode Reader connection is unstable	Corrected LMP detach implementation

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