



Intel® PROSet/Wireless for Bluetooth Technology Software

18.16.1 HF2 PV Release

WW16, 2016



Release Overview

Intel is pleased to announce the Bluetooth 18.16.1 HF2 (hot fix 2) PV (production version) release.

- This is a reduced POA supported and validated hotfix release:***
StP and Win10 32/64 TH2
SfP and Win10 64 TH2

Adapter	Release (H is FW only)	Intel Driver	MOT Driver
SdP/3168 StP2-D1/7265	AHBTW1304_18.1.1601.08G AHBTW1304_18.1.1601.08H	18.1.1613.3274	19.0.1601.0594
SfP/8260			
StP/3165 StP2/7265			
WP1/3160 WP2/7260			

VIP Kit #:
115136

WHQL Certified For:

SdP: (win7 32/64), (win8.1,10 - 64), SfP:
(win7 - 32/64), (win8.1,10 - 64)
WP/StP: (win7,8.1,10 - 32/64)
No win8 support

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

Important Notes about this Release

INF install supported for Win10 on 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

Features and DCR

Title	Comment
None	

Corrected Issues -18.16.1 HF2 PV (AHBTW1304)

CQ ID	OS	HW	Description	Fix Detail
MWG100256213	Windows 10	StP/SfP	The Bluetooth Device sometimes disappear when resume from S3 & S4	Driver flushes out device FIFO by reading in a loop for all the responses the firmware may send for a command sent from D0Entry or D0Exit. In addition, driver sends HCI Reset if MSFT stack does not send one on entry into Sx scenarios

Known Issues – 18.16.1 HF2 PV (AHBTW1304)

NIC/OS	Internal Defect ID	Description	Comments
StP/SfP Win8.1/10	MWG100256364	[coex] Low MOS, and TPT scores in HFP transfer during WiFi TX or RX traffic	

Previous Release Slides

Known Issues – 18.16.1 SdP/StP2 D1

NIC/OS	Internal Defect ID	Description	Comments
SdP/Win10	MWG100256041	Multi-profile BT failed to repair with devices after RF Kill On, cycle S3, RF Kill Off	Recovery = reconnect Planned to fix in 19.0
All	MWG100256578	BT fails and unknown device reflected if installed by complete install option, ok if typical installation selected	PC <i>not impacted, planned to fix in PV</i> <i>Resolved in PV</i>
SdP/Win10	MWG100253836	System WHQL – LE specification test 60-80% pass rate	WIP <i>Test setup issue – now resolved</i>
StP2-D1/Win10	MWG100256655	System WHQL: BT4LE specification failure pass rate 60-80%	WIP <i>Test setup issue – now resolved</i>
StP D1/Win8.1	MWG100242417	[System HCK] "System - Bluetooth 2.1 Logo Tests" failed with error, pass rate less than 80%	Planned to fix in 19.0
StP D1/Win8.1	MWG100242418	[System HCK] "System - Bluetooth Inband SCO Test" fails with error, pass rate less than 80%	Planned to fix in 19.0

Changes -18.16.1 PC (AHBTW1167) to PV (AHBTW1264)

CQ ID	OS	HW	Description	Fix Detail
MWG100256009	Win10	All	Failure to install via setup.exe if Windows is installed on non-C: drive via setup.exe	Product.wxs for MSI was setting the ROOTDRIVE property to C:\ by default.
MWG100256578	All	All	BT fails and unknown device reflected if installed by complete install option, ok if typical installation selected	Corrected build layout of INF files.
N/A	All	All	WHQL Certified and includes CAT file	

Corrected Issues - 18.16.1 PC (AHBTW1167)

CQ ID	OS	HW	Description	Fix Detail
MWG100254845	all	SdP/StP2 D1	LE Disconnection due to Response Timeout	Sync loss issue due to clock drift because of high winoffset – reduced winoffset
MWG100255085	Win8.1	SdP/StP2 D1	IUT does not send a packet with ARQN bit set to NAK	Corrected disconnect reason mechanism
MWG100254443	All	SdP/StP2 D1	LMP message exchange instead A2DP packets traffic	Corrected setting bt_info for "other" packet type
MWG100251987	Win10	SdP/StP2 D1	Unable to Pair/Unpair 100x	Corrected scheduler update mechanism
MWG100254197	Win10 Win8.1	SdP/StP2 D1	System WHQL - LE Logo Tests fails with YB on Primary	Corrected clock when entering LPM
MWG100248229	Win8.1	SdP/StP2 D1	Connection times out when scanning	Corrected address resolution policy
MWG100251575	Win7	SdP/StP2 D1	Running Lefunctest_5_5 test case triggered YB appearance	Corrected buffer pointer handling
MWG100242687	Win8.1	SdP/StP2 D1	System WHQL - Bluetooth LE Logo Test failed.	Corrected USB interrupt handling
MWG100242752	All	SdP/StP2 D1	Master fails to receive SCAN_RSP advertizing packet from slave	Corrected SCAN_REQ scenario

Known Issues – 18.16

NIC/OS	Internal Defect D	Description	Comments
All/Win7	MWG100255651	Sometimes BT tray icon disappears, Inquiry in bad state during S5 cycles	Occurs 1/200-300, restart recovers Fix planned in coming HF release
SfP/Win10	MWG100255310	BT Device may YB when OPP RX while Master + BLE HID	Only occurs during OPP files xfer with HID device active, restart recovers Fix planned in coming HF release
SfP/Win10	MWG100255362	WiFi throughput ~10-25% lower than expectation when BT is Connectable Discoverable	Fix planned in coming HF release
SfP/Win10	MWG100255361	Low quality in HFP, A2DP when testing BT profiles	Fix planned in coming HF release
SfP/Win10	MWG100255423	Throughput drop or connection drop happens while surfing internet web site with BT mouse connected	Fix planned in coming HF release
SfP/Win7	MWG100252350	Yellow bang on Bluetooth device in Device Manager after S3 cycleing	WIP to determine if Microsoft or Mot Fix planned in coming HF release
SfP/Win10	MWG100250420	Sometimes BT A2DP lagging with WiFi radio on	Fix planned in coming HF release

Corrected Issues -18.16 (1)

CQ ID	OS	HW	Description	Fix Detail
MWG100244492	Win10	SfP StP D0	WIFI coex test fail to pass requirement for throughput	
MWG100246695	Win10	StP1 SfP	BT shows YB & MSFT BT Enumerator & MSFT BT LE Enumerator gone in DM after BT keep inquiring mode one hour.	Corrected out of event buffer causing controller going through exception handling
MWG100247937	Win7/10	SfP	Bluetooth intermittently fail to recognize on S3/S4 cycle.	Corrected bootloader failure to pull up USB D+ when going into ULPM state
MWG100247626 MWG100245931	Win7	SfP StP	Sometimes can't connect to remote successfully when Intel3165 listen to remote device Atheros344	Corrected during Role switch we turn on ACL Tx data channel twice causing sequence mismatch
MWG100243769	Win10	StP WP	BT has no function after resume back from S3/reboot]	Corrected memory allocation issue which was causing out of memory condition
MWG100246695	Win10	StP WP	YB & MSFT BR & LE Enumerator gone in DM after BT keep inquiring mode one hour	Corrected start TL flow causing HCI reset response non receipt by host
MWG100221694	Win10	WP	OPP Rx is low at all attenuation points	Extend the number of POLLS from 4 to 20 after the last data transfer
MWG100226785	Win8.1	WP	Device manager show Intel BT device yellow bang during BT on/off (bug fix)	Corrected clear stale data event while processing HCI reset
MWG100253400	Win7	SfP	Device Yellow Bang - Problem Code 10	Corrected usb reset disabling EP without clearing corresponding interrupt bit
MWG100249396 MWG100247395	Win10	SfP	BT mouse inoperative after ~15 minutes of system inactivity	Corrected connection state timer
MWG100247314 MWG100249397	Win10	StP	BT mouse inoperative after extended period of system inactivity	Changed LPM threshold

Corrected Issues -18.16 (2)

CQ ID	OS	HW	Description	Fix Detail
MWG100251734	All	All	FW Retry fail Msg should report as WARNING instead of ERROR	Corrected message report
MWG100253486	All	All	Fix for providing correct path to InstallDrivers custom action in MSI.	Corrected custom actions to get the path at run-time
MWG100251581	All	All	HFP AG driver fails to open SOB connection	Some structs in hci.h were not 1 byte aligned. The extra padding was causing events to be routed incorrectly.
MWG100253355	All	All	BT inf install cannot work properly if not install in C:\]	Correct search for FW action
MWG100249641	All	All	Fails to uninstall Intel bluetooth host driver	Service control stop was being sent to the SCM regardless of the state of the service
MWG100249257	All	All	OEM Tools - DRTU SfP Remote: rservice server crashes while operating BR\EDR RX Sensitivity test	Corrected BT driver and rservice handling
MWG100247116	All	All	MSI Installation Logs contain "CustomAction Failure" entries even though the installation succeeds	Corrected andling of VID/PID SetUSBSSRegKey
MWG100253823	Win7	SfP	YB or disable after installation	Corrected flow: HCI_RESET->USB RESET->HCI_RESET
MWG100253905	Win7	SfP	Mouse and keyboard inoperative after S3/S4/Shutdown upon restart	Memory exception occurred due to invalid pointer
MWG100253354 MWG100252023 MWG100252427	Win10	SfP	File transfer speed correction BT mouse sometimes has hesitations in movement	ATPC reducing the Tx power to minimum level if the peer is not sending increase in Tx power
MWG100253616	Win7	SfP	After paired, fails to receive a file from player	Corrected reset of LMP feature DDC parameter when host initializes controller

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