



INTEL PROSET/WIRELESS WIFI SOFTWARE V19.50 PV RELEASE

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Release Overview

- Intel is announcing the 19.50 Production Version (PV) release of the Intel® PROSet/Wireless WiFi Software
 - This version is a PV version to support KBL consumer platforms and a maintenance release that introduce new features and addresses known issues reported in previous 19.x versions.
 - This software package includes update to the 19.50.0.11(win10) ,19.10.4.1(win7,8.1) and 18.33.6.2 drivers for the following devices: WsP, SdP, SfP, StP, WkP
 - The 19.50.0.11 driver is not recommended for corporate platforms due to WiAMT issues: WIFIWIN-1367, 1304. These issues targeted for 19.50.1.x-HF version

General Information

WiFi Software Build

- WiFi TIC #STHFWFW1060_19.50.0.11
 - Includes 19.50.0.11 for win10
 - Includes 19.10.4.1 for Win7,8.1
 - Includes 18.33.6.2 for WP1/WP2/StP-C
- VIP Kit #121001

Tested Platforms

- KBL-Y/U, KBL-S, KBL-H, SKL-Y/U, APL, BDW-Y/U

Supported Operating Systems

(see layout slide for more details)

Supported Hardware (see layout slide for more details)

- WsP
- OkP
- SfP
- DgP
- SdP
- StP2 (C0/D0/D1)
- StP1
- MpP
- WP2
- WP1
- Legacy HW

OS Wireless HW	win7 32/64 bit	win8.1 32/64 bit	win10 32/64 bit
Windstorm Peak 8265 skus	V	64	64
Oak Peak 18265 skus	V	64	64
Sandy Peak 3168 skus	V	V	V
Pine Peak 11000 skus	V	64	64
Lightning Peak 8x70 skus	V	64	64
Snowfield Peak 8260 skus	V	64	64
Douglas Peak 18260 skus	V	64	64
Stone Peak 2 7265 skus	V	V	V
Stone Peak 1 3165 skus	V	V	V
Maple Peak 17265 skus	V	64	64
Wilkins Peak 2 7260 skus	V	V	V
Wilkins Peak 1 3160 skus	V	V	V

19.50-PV Release –WiFi Package Layout

Starting with the 19.0 WiFi release, the SW package content changed:

- 1) The Windows 8.0 drivers for Wilkins Peak and newer adapters removed from the package
- 2) The 15.11 and 15.12 drivers for several older Legacy products removed

The latest drivers for these products will continue to be available for customer download on downloadcenter.intel.com.

Drivers that were removed from the package since 19.0 are indicated by the red areas.

The **Blue** areas indicate the new SW in this release (e.g 19.50.0.11, 19.10.4.1, 18.33.6.2) all other drivers included in the package from previous release.

n=32bit w=64bit. Some HW support only 64bit

	Win7-32/64	Win8-32/64	Win8.1	Win10			
WsP/8265	19.10.4.1 NetWS(n/w)04	N/A	19.10.4.1 NetWB(n/w)04	19.50.0.11 NetWT(n/w)04			
SdP/3168							
SfP/8260		17.16.0.X NetWE(n/w)02	18.33.6.2 NetWB(n/w)02	18.33.6.2 NetWT(n/w)02			
StP1/3165							
StP2-D/7265							
StP2-C/7265	18.33.6.2 NetWS(n/w)02		18.33.6.2 NetWB(n/w)02				
WP1/3160							
WP2/7260							
JP1/2230							
JP2/6235	15.17.0.X NetWS(n/w)01	15.18.0.X NetWE(n/w)01 (Logo for Win8)					
TP/6205							
CyP/105							
CyP+BT/135							
PP3/6300							
PP2/6200							
RP2/6230							
MP/2200	15.11.0.X NetW...S00	15.17.0.X NetWS(n/w)01 (Logo for Win7)		N/A			
KP/6250		15.12.0.X NetW...E00 (Logo for Win8)					
KsP/6150							
RP1/1030							
CP/1000							
CrP/100							
CrP2/130		15.11.0.X NetW...S00 (Logo for Win7)		N/A			

New features

Feature /DCR ID	Description	Comment	OS
DCR 5034	Customer specific		
DCR 5134	Customer specific		
DCR 5116	Customer specific		
DCR 5085	Customer specific		
DCR 5106	Customer specific		

Corrected Customer Issues since 19.40.0.3-PV

19.50.0.11 driver only

ID	Description	OS/HW
WIFIWIN-1536	[WAPI] enable/disable switch has no function	WIN10/ALL
WIFIWIN-1535	The extend monitor image will hangs up after connecting to miracast adapter successfully then adjust the resolution to "800x600"	WIN10/ALL
WIFIWIN-1498	[Netwtw04!prvOsScanClientSetFilter+0x1e6] BSOD occurred when do Wifi scan, error code: PAGE_FAULT_IN_NONPAGED_AREA (50)	WIN10/ALL
WIFIWIN-1330	The extend monitor show black screen after connecting to miracast adapter successfully.	WIN10/ALL
WIFIWIN-1329	Hang up happened on monitor screen when open/close a file from unit after Miracast connection established.	WIN10/ALL
WIFIWIN-1315	The external monitor show black background after connected to Miracast adapter successfully.	WIN10/ALL
WIFIWIN-1314	The display of external monitor doesn't change when operating units with connecting a monitor via miracast.	WIN10/ALL
WIFIWIN-1252	[Never Crash]AV_netwtw04!CePacketParse	WIN10/ALL
WIFIWIN-1087	[Netwtw04!tcpReorderStreamsAgingHandle+0xa0][SoftAP] 7E BSOD was observed after Windows Update	WIN10/ALL
WIFIWIN-1083	Customer specific throughput test fail	WIN10/ALL
WIFIWIN-1011	[BSOD 0x133][Netwtw04!txScdTriggerScheduling] BSOD 0x133 when using hotspot to share LTE network	WIN10/ALL
WIFIWIN-894	[Netwtw04!prvTxCompletePacketAndFreeNbls+0xf] D1 BSOD occurred while S3/S4/Hybrid Shutdown/Shutdown/Reboot cycling test	WIN10/ALL
WIFIWIN-783	[Miracast] Cannot connect Miracast (LG TV) with 11ac AP connected	WIN10/ALL
WIFIWIN-780	[Miracast][eCSA][THP] Disconnections from Miracast adapter. uCode ASSERT 0x90A.	WIN10/ALL
WIFIWIN-686	The installation window will move up and down	WIN10/ALL
WIFIWIN-1189	[Miracast] Miracast UHD resolution is not supported in WiFi 19.30 PV	WIN10/ALL
WIFIWIN-1026	Connect miracast then change resolution to 800x600, the external display will hung up, and the external display will black screen if reboot OS then re-connect miracast again.	

Corrected Customer Issues since 19.10.3.6-PV cont.

19.10.4.1 driver only

ID	Description	HW	OS
WIFIWIN-1196	WLAN tray icon will show red X without signal when idle or do power management stress overnight	All	Win7/8.1
WIFIWIN-1190	Tx power in ACK Mode is fluctuating from 14.5 to 11.5dBm as time goes when measuring 11b TRP	All	Win7/8.1
WIFIWIN-1154	Stress_SUT will cause yellow bang to device when running WB stress	All	Win7/8.1

Corrected Customer Issues since 18.33.5.1-PV cont.

18.33.6.2 driver only

ID	Description	HW	OS
WIFIWIN-847	Wake up at the timing of GTK refresh on WoW enabled.	All	All
WIFIWIN-1186	[CNV Powered By] BSOD occurred on Real Powered By user caused by NETwbw02!prvTxScdHandleCompressedBa function	All	All
WIFIWIN-1187	[CNV Powered By] BSOD occurred on Real Powered By user caused by prvhSecGetPmkidCacheEntry function on StP- C	All	All
WIFIWIN-1435	[MATrix]BSOD after setting HW RF On verify connection with pings and disabling driver (BugCheck 7E, FB: logPrintRelease)	All	All

Software Known Issues and Limitations

ID CQ	Jira	Description	OS	Recovery procedure
MWG100251745	WIFIWIN-85	Power consumption exceeds POR(~10%) in throughput scenarios		
MWG100257686 MWG100257333,	WIFIWIN-118, WIFIWIN-114	WIFI_BT COEX: Low BT OPP Tx/Rx (~20%) while wifi traffic	Win7/ 8.1/10	N/A
MWG100264289	WIFIWIN-866	[WiAMT-KBL] Occasionally After moving from RF KILL ON to RF KILL OFF no webui via wireless	Win7(64)	Restart
MWG100264756	WIFIWIN-301	[Miracast] Occasionally disconnection from adapter during Miracast session	Win10	
	WIFIWIN-853	[SoftAP] Disconnection after 10 min with 8 clients tethering via wireless modem.	Win10	Reconnect
	WIFIWIN-566	[WiAMT] Occasionally no WebUI after sending ARP request when device in CS.	Win10	Move to S0
	WIFIWIN-1595	[MU-MIMO] Performance crash with 1 Stations out of 3 while running TvA	Win10	N/A
	WIFIWIN-1367	Occasionally Wi-Fi lost connectivity on corporate sku, when move to CS state	Win10	
	WIFIWIN-1470	[Soft AP] Occasional disconnection while hosting HotSpot with 7 to 8 clients	Win10	Auto Reconnect
	WIFIWIN-1305	[WFDS] Failed connect to DUT using the service discovered after RF-Kill or Airplane mode.	Win10	Restart
	WIFIWIN-1422	High power consumption measured after platform resuming from S3 in Air Plane Mode.	Win10	N/A
	WIFIWIN-1618	[QOS Functionality] WMM Capability test failed due to Incorrect QOS category TpT Priority	Win10	N/A
	WIFIWIN-1304	No WEBUI connectivity, when move to CS state	Win10	N/A

WiFi Validation Information and Guidance

Domain	Risk Indicator	Details
Connectivity		
Platform		
Data Path \ TpT		WIFIWIN-1595- [MU-MIMO]Performance crash with 1 Stations out of 3 while running TvA WIFIWIN-1618 –[QOS Functionality] WMM Capability test failed due to Incorrect QOS category TpT Priority
BT-Coex		
WiFi Device Power		WIFIWIN-1422 – High P1 - [WiFi][Power] High power consumption measured after platform resuming from S3 in Airplane Mode
Miracast		
WiAMT		WIFIWIN-1367 - [CSME 11.6][Connected Standby]Wi-Fi lost connectivity, when move to CS state WIFIWIN-1304 –No WEBUI connectivity, when move to CS state
Cert		

Legend:

	Broken, Not usable
	Usable, major issues exist
	Usable

Notes on the DDD Debug Layout Usage

Included with the user distributed layouts is also a DDD debug layout. This layout incorporates debug capabilities to be used by OEM validation teams to provide logs and information about an issue to Intel engineering.

This layout is not to be included on production systems or to be shared with end-user customers.

To use the DDD layout, follow the instructions below:

- 1) Clean the Windows event log by the following commands with administrator prompt.

```
wevtutilcl system
```

```
wevtutilcl application
```

```
wevtutilcl Microsoft-Windows-WLAN-AutoConfig/Operational
```

- 2) Install DDD release.
- 3) Perform test until issue reproduction.
- 4) Note down the exact time when issue reproduced.
- 5) Disable WiFidevice in the device manager.
- 6) Copy all files below to share with Intel:
 - I. "System.evtx" under C:\Windows\System32\winevt\Logs
 - II. "Application.evtx" under C:\Windows\System32\winevt\Logs
 - III. "Microsoft-Windows-WLAN-AutoConfig%4Operational.evtx" under C:\Windows\System32\winevt\Logs
 - IV. "WiFiLog-XXX.log" under C:\
 - V. "dddLog_XXX.bin" under C:\Windows\Temp\DDDLogs\
 - VI. "MurocLog.log" under C:\Program Files\Intel\WiFi\UnifiedLogging\
 - VII. "MEMORY.DMP" under C:\Windows\System32

Abbreviation

Acronym	Description	Intel formal code name
KbL	Kaby lake platform	7 th Generation Intel Processor
WsP	Windstorm peak	Intel(R) Dual Band Wireless-AC 8265
SdP	Sandy Peak	Intel(R) Dual Band Wireless-AC 3168
StP-2	Stone Peak-2	Intel(R) Dual Band Wireless-AC 7265
StP-1	Stone Peak-2	Intel(R) Dual Band Wireless-AC 3165
SfP	Snow field Peak	Intel(R) Dual Band Wireless-AC 8260
WkP-2	Wilkins Peak 2	Intel(R) Dual Band Wireless-AC 7260
WkP-1	Wilkins Peak 1	Intel(R) Dual Band Wireless-AC 3160
OkP	Oak Peak	Intel® Tri-Band Wireless 18265

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