



INTEL PROSET/WIRELESS WIFI SOFTWARE V20.50.2.1 HOT FIX PRODUCTION VERSION RELEASE

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Release Overview

Intel is announcing the 20.50.2.1 Hot Fix Production Version (HF PV) release of the Intel® PROSet/Wireless WiFi Software

- This version is a Hot Fix PV version to support KBL, GLK, CNL, CFL platforms and a maintenance release that addresses known issues reported in previous software versions
- This software package includes updates to: 20.50.2.1 driver for the following devices: JfP1, JfP2, ThP2, WsP, SfP
- This release contains certified drivers for Windows 10 Creators Update (RS2) and for Windows 10 Fall Creators Update (RS3)

UWD-ready software part of the layout

UWD-ready Wi-Fi software (support for Microsoft's* DC requirements) is part of the Wi-Fi release layout

- UWD requirements are supported on StP2-D0 and newer wireless HW only
- UWD-ready software provided for Windows* 10 64-bit only
- For more information, see CDI doc# [575605](#) and the 'Wi-Fi Installation Guide' that is included with the VIP Kit
- Important: Known issues with the UWD-ready software:
 - Need to install Windows 10 RS3 '11D' update (specifically KB4051963) to install PROSet using the 'AddSoftware' mechanism

General Information

WiFi Software Build

- WiFi TIC STHFWW2969_20.50.2.1
 - Includes 20.50.2.1 for Win10 RS2/RS3 (JfP1/JfP2/ThP2/WsP/SfP)
 - Includes 19.51.12.3 for Win10 RS2/RS3 (StP/SdP)
 - Includes 19.10.12.2 for Win7,8.1 (WsP/SfP/StP/SdP)
 - Includes 18.33.12.2 for Win7,8.1,10 RS2/RS3 (WP1/WP2/StP-C)
- VIP Kit #127561

Tested Platforms

- KBL-R, KBL-Y/U, KBL-S, KBL-H, SKL-Y/U, APL, BDW-Y/U, GLK, CNL, CFL

Supported Operating Systems

(see layout slide for more details)

Wireless HW \ OS	win7 32/64 bit	win8.1 32/64 bit	win10 32/64 bit
Jefferson Peak 1 (SA and Div)			64
Jefferson Peak 2			64
Thunder Peak 2			64
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

Supported Hardware (see layout slide for more details)

- JfP1
- JfP2
- ThP2
- WsP
- OkP
- SfP
- DgP
- SdP
- StP2 (C0/D0/D1)
- StP1
- MpP
- WP2
- WP1

20.50-PV Release –WiFi Package Layout

Starting with the 20.00 WiFi release the 15.17 and 15.18 drivers are removed from the SW package

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

The **Blue** areas indicate the new SW in this release (e.g 20.50.2.1) all other drivers included in the package from previous release.

	Win7	Win8.1	Win10
JfP1/9461/9462	N/A	N/A	20.50.2.1 NetWTw06
JfP2/9560			
ThP2/9260			
WsP/8265	19.10.12.2 NetWS(n/w)04	19.10.12.2 NetWB(n/w)04	19.51.12.3 NetWT(n/w)04
SfP/8260			
SdP/3168			
StP1/3165			
StP2-D/7265	18.33.12.2 NetWS(n/w)02	18.33.12.2 NetWB(n/w)02	18.33.12.2 NetWT(n/w)02
StP2-C/7265			
WP1/3160			
WP2/7260			

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

Corrected Customer Issues since 20.50.0.4

20.50.2.1 driver only

Key	Summary	OS/HW
WIFI-8727	Customer Specific Fix	Win10/JfP/ThP2/SfP/WsP

DCRs/New Features since 20.50

Key	Summary	OS/HW
DCR 5239	Windstorm Peak specific issue fix – additional fix to LAA Adaptivity of ETSI 5GHz Standard from 20.50 PV release - For more information, see CDI doc# 576595 – please note this is a same fix from 20.50.1.1 HF PV	Windows 7, 8.1, 10 JfP/ThP2/SfP/WsP/SdP/StP

Corrected or not observed known issues from 20.40

Jira	Description	HW	OS	Recovery procedure
WIFIWIN-5079	CPT for WiFi Rx disconnected during A2DP and OPP with JfP1	JfP1	Win10	
WIFIWIN-3494	Low WiFi Rx TPT over range during A2DP active	ThP2, JfP2	Win10	N/A
WIFIWIN-4809	[Miracast][WsP] Miracast disconnection + long video freeze when working in 5GHz and laptop is unplugged from power supply (power save enabled)	WsP	Win10	

Software Known Issues and Limitations – 20.50

Jira	Description	HW	OS	Recovery procedure
WIFIWIN-1169	Power consumption in TpT Tx scenarios is sometimes high	ThP2, JfP2	Win10	N/A
WIFIWIN-3493	WiFi Rx in ~70dbm RSSI fail during A2DP and OPP	ThP2, JfP2	Win10	N/A
WIFIWIN-2960	Failed to establish Miracast connection with XiaomiBox3	ThP2, JfP2	Win10	Perform connection again
WIFIWIN-3876	On rare occasions Miracast disconnects when working on CH1 when using specific dongle models.	SfP, ThP2, WsP	Win10	
WIFIWIN-4114	[Phy][Jfp1][TvA] 11n_LB RX sensitivity point occurs at lower attenuation compare to SdP	JfP1	Win10	
WIFI-8108	[WIFI_BT COEX][WIFI] Low WiFi TpT while BT HFP active	JfP1	Win10	
WIFI-8606	[WIFI_BT COEX][WIFI] WiFi TpT degraded in BT ON in RS4	ThP	Win10	

Product Health

Domain	ThP/JfP 20.50	WsP/SfP 20.50	Details
Connectivity			
Platform			WIFI-8559 - [CFLS-Corporate][NLO] Failed to get default request status[0x8] – relevant for Corporate SKU only
Data Path \ TpT			WIFI-4114 [Phy][Jfp1][TvA] 11n_LB RX sensitivity point occurs at lower attenuation compare to SdP
Miracast			
SoftAP			
BT-Coex			WIFI-8606 - [WIFI_BT COEX][WIFI] WiFi TpT degraded in BT ON in RS4 BT-3859
WiFi Device Power			
Cert (WHQL)			
Responsiveness			

Legend:

	Broken, Not usable
	Usable, major issues exist
	Usable

<Color Guidelines>

Critical bug(s) or critical usability issues

minimum 1 High P1. if >=5 High P1 – mandatory. Also if > 20 High - mandatory

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

Abbreviations

Acronym	Description	Intel formal code name
JfP1- DA	Jefferson Peak-1 Diversity antenna	Intel® Wireless-AC 9462
JfP1- SA	Jefferson Peak-1 Single antenna	Intel® Wireless-AC 9461
JfP2	Jefferson Peak-2	Intel® Wireless-AC 9560
ThP2	Thunder Peak-2	Intel® Wireless-AC 9260
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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Estimated results were obtained prior to implementation of recent software patches and firmware updates intended to address exploits referred to as "Spectre" and "Meltdown". Implementation of these updates may make these results inapplicable to your device or system.

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