



Intel® Innovation Platform Framework (IPF)

Release Notes

October 2025

Revision IPF - 2.3.20200.4422

Microsoft Windows 10/11 x64*

Platforms: Lunar Lake, Panther Lake, Arrow Lake S Refresh

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Revision History

Revision Number	Description	Revision Date
2.3.20200.4422	<ul style="list-style-type: none">• Arrow Lake S Refresh Consumer and Corporate Best Known Configuration (BKC) Software Package (Microsoft Windows 11 25H2– 64 bit) WW41 '25• Lunar Lake Consumer and Corporate Production Version MR6 Best Known Configuration (BKC) Software Package (Microsoft Windows 11 24H2– 64 bit) WW40-2025• Panther Lake H12Xe(QS)/H404(EVQS) Consumer and Corporate Best Known Configuration (BKC) Software Package (Microsoft Windows 11 25H2/24H2–64 bit) WW40-2025• Panther Lake H12Xe/H404/H484(ES2) Consumer and Corporate Best Known Configuration (BKC) Software Package (Microsoft Windows 11 25H2/24H2–64 bit) WW40-2025	October 2025

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1 *Release Kit Summary*

1.1 Release Kit Details

Kit Release	2.3.20200.4422
Target Platform	LNL, PTL, ARL-S Refresh
Contents	IPF Driver

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2 General Information

2.1 Important Notes

This is the information for validated platforms at ingredient level. For a complete list of supported hardware and operating systems, please refer to platform BKC or contact your Intel representative.

2.2 Intended Audience

The target audiences for the release notes are OEM/ODM platform thermal and hardware engineers, BIOS and system software engineers, component ingredient (Wi-Fi PSM, WWAN, NVMe Storage, Camera) procurement and design engineers.

2.3 Supported OS

This package supports the following Operating Systems:
Microsoft Windows* 11/10 x64 Edition 24H2,22H2,20H2, 20H1

2.4 Supported Collaterals

Please refer to the below mentioned supporting documents for the latest update on IPF.

- Intel® Innovation Platform Framework (IPF) Configuration Guide #[638930](#)
- Intel® Innovation Platform Framework Namespace User Guide #[732035](#)
- Intel® Innovation Platform Framework 1.x BIOS Specification #[640237](#)
- Intel® Innovation Platform Framework (Intel® IPF) Client Development #[685592](#)
- Intel® Innovation Platform Framework (Intel® IPF) Provider Development Guide #[685487](#)

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3 Installation and Configuration

3.1 Intel® IPF Software Stack

Component	Remarks
IPF Windows Setup	Single installer package. Required for all client apps like DTT, XTU and CST.
IPF Windows SDK	IPF EF SDK, for development using IPF EF.
IPF Core SDK	This is IPF Core SDK package only – no EF SDK. This is for development purposes, contains IPF core SDK primitive commands

3.2 BIOS Setup Guide

Please make sure IPF is enabled in your BIOS setup menu.

1. Reboot the system and enter the BIOS setup screen.
2. Go to "Intel Advanced Menu".
3. Enter "Power & Performance", then "CPU – Power Management Control" page.
 - a. Make sure "Intel(R) SpeedStep(tm)" is enabled.
 - b. Make sure "Turbo Mode" is enabled.
4. Enter "Thermal Configuration ", then "Intel(R) Innovation Platform Framework (IPF) Configuration" page.
 - a. Ensure "Intel® Innovation Platform Framework" show as "Enabled".
 - b. Mostly everything will be pre-configured, so change settings as desired.
5. Save and Exit.

3.3 Intel® IPF Software Stack Installation

1. Install the Chipset and Graphic driver.
2. Install IPF infs. Once Installation is complete it will show under "System Devices" of Device Manager. The recommended way for installation is using pnputil commands.


```
# pnputil.exe /add-driver ipf_acpi.inf /install
# pnputil.exe /add-driver ipf_cpu.inf /install
```
3. Reboot your system.
4. Make sure no device is yellow bang in Device Manager.

Note: Single installer: IPF no longer has a separate installer for IPF Core and EF components. All components will show as 2.x in Device Manager.



4 Features Added

ID #	Description	As of Version
HSDDES# 22020885021	[PPM] IPF driver to be distributed as generic automatic updates on WU	2.3.20200.4422
HSDDES# 14024125207	Namespace Explorer Tool (MVP) Version 1.0	
IPFT-9627	Restrict loading of providers	
HSDDES# 22021143965	Battery Time-to-Empty Estimation Enhancement	
HSDDES# 15017606629	AEP PTL Context-Based-Charging	
HSDDES# 16027618132	[BIM] EF Support for Display (Internal) Brightness Change Event	
HSDDES# 22021290417	[DTT] Support for Hetero Parking on Graphics Workloads	
HSDDES# 14024032838	[IPF] Win11 25H2 OS & HLK Requirements	
HSDDES# 16027963719	[BIM] BIM Provider Request	
HSDDES# 22021369827	Expose IPF client SDK C Interface to C++ via dll	
HSDDES# 22020473650	[IPF] Restrict loading of providers in IPF Clients	

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5 *Features Changed or Modified*

ID #	Description	As of Version
IPFT-9671	Change the current implementation of having "Platform" in exclude section to throw an exception	2.3.20200.4422

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6 *Features Deprecated/Removed*

ID #	Description	As of Version
N/A	N/A	N/A

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7 Issues Fixed

ID #	Description	As of Version
<p>HSDES# 22021257473</p>	<p>[DELL][ARL-Hx] Better error handling, OPB policy occasionally shows "Initialization failure" after system reboot</p> <p>Fix Details - Update the implementation of GET_TPG_POWER_STATE_SUR to return GPU_OFF_STATE for everything other than the GPU_ON_STATE</p>	2.3.20200.4422
<p>HSDES# 16027850750</p>	<p>[LNL] [PTL] Fan Primitives GFHT, GFLT, SFHT, and SFLT fail to return values</p>	
<p>HSDES# 14024464722</p>	<p>Over-install of DTT SW INF fails due to existing provider with same name with State Separation syntax</p> <p>Fix Details - The Installation Configuration Error fixed with DTT version 9.0.11970.58463</p>	
<p>HSDES# 16027738794</p>	<p>[PTL-P] [4-STAR] [DC3] [SNS] NamespaceMgr crash causes YB on Dynamic Tuning Technology Device Component during S4</p> <p>Fix Details - On-demand loading of the core provider, as well as limit the scope of the core provider.</p>	
<p>HSDES# 14025409027</p>	<p>[Lenovo IdeaPad] "DTT" yellow bang in DM after do S4/S5.(F/R:1/3 units,3/45cycles)</p>	
<p>HSDES# 16028103519</p>	<p>SWLC change is only recognized by EPO when there is a WLC change</p> <p>Fix Details - The issue appears to be due to the fact that DTT is not enabling for the interrupt and it was expected that IPF will enable the interrupt when the associated event was registered for by DTT. Updating IPF to automatically enable the interrupt when the event is registered, resolves the problem</p>	

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8 *Security Issues Fixed*

ID #	Description	As of Version
N/A	N/A	N/A

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9 *Known Issues*

ID#	Description	As of Version
N/A	N/A	N/A

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10 Kit Details

Additional Notes	As of Version
<ul style="list-style-type: none">• Arrow Lake S Refresh Consumer and Corporate Best Known Configuration (BKC) Software Package (Microsoft Windows 11 25H2– 64 bit) WW41 '25• Lunar Lake Consumer and Corporate Production Version MR6 Best Known Configuration (BKC) Software Package (Microsoft Windows 11 24H2– 64 bit) WW40-2025• Panther Lake H12Xe (QS)/H404(EVQS) Consumer and Corporate Best Known Configuration (BKC) Software Package (Microsoft Windows 11 25H2/24H2–64 bit) WW40-2025• Panther Lake H12Xe/H404/H484(ES2) Consumer and Corporate Best Known Configuration (BKC) Software Package (Microsoft Windows 11 25H2/24H2–64 bit) WW40-2025	2.3.20200.4422

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