Release Notes

DRIVER VERSION: 27.20.100.9077 BETA

DATE: December 9, 2020

HIGHLIGHTS:

- Includes an all-new graphics driver installer with a revamped user interface, offering a sleek, modern look and feel!

GAMING IMPROVEMENTS:

- Playability improvements to reduce stutter in **Fortnite*** on 7th Generation Intel® Core™ processors and higher.

GAMING HIGHLIGHTS[*1]:

- Fixed crashes/hangs observed in **Assassin's Creed Valhalla*** (DX12).
- Revisit the definitive classic with extra character-specific scenarios and new music, graphics options and more in **Dragon Quest XI S: Echoes of an Elusive Age – Definitive Edition*** on systems with Iris® Xe graphics or better.

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[*2] Are you still experiencing an error preventing the driver update? Look here for **why and a solution**.

KEY ISSUES FIXED:

- Intermittent crash or hang seen in **Assassin's Creed Valhalla*** (DX12), **Tom Clancy's The Division 2*** (DX12), **Tom Clancy's Rainbow Six Siege*** (DX11) on 11th Generation Intel® Core™ Processors with Intel® Iris® X^e graphics.
- Intermittent crash or hang seen when running **Shadow of the Tomb Raider*** (DX12) benchmark on 10th Generation Intel® Core™ processors with Intel Iris Plus graphics.
- Minor graphic anomalies seen in **Hitman 2*** (DX12), **Rise of the Tomb Raider*** (DX12), **Forza Motorsport 6*** (DX12)**, Battlefield V* (DX12)** on 11th Generation Intel® Core™ Processors with Intel® Iris® X^e graphics.
- Minor graphic anomalies seen in **Arma 3*** on 10th Generation Intel® Core™ processors with Intel UHD Graphics.
- Minor graphic anomalies seen in **Fortnite*** (DX12) (Battle Royale Mode) on 11th Generation Intel® Core™ Processors with Intel® Iris® X^e graphics.
- **Red Dead Redemption 2*** (Vulkan) Application window automatically flickering and resizing during launch on 11th Generation Intel® Core™ Processors with Intel® Iris® Xe graphics.
- Video corruption observed on PowerDVD20 when mouse is hovered over the progress bar during local video playback on 11th Generation Intel® Core™ Processors with Intel® Iris® X^e graphics.
- Garbage seen when play video with PowerDVD18 on 11th Generation Intel® Core™ Processors with Intel® Iris® X^e graphics.
- BD playback is corrupted by Corel WinDVD on 11th Generation Intel® Core™ Processors with Intel® Iris® X^e graphics.
- External display not enumerating after Hot-plug/unplug with mDP -DP cable on 11th Generation Intel® Core™ Processors with Intel® Iris® X^e graphics.
- Corruptions seen with excel and power point in different scenarios on 11th Generation Intel® Core™ Processors with Intel® Iris® X^e graphics.

This document provides information about Intel Graphics Driver for:

- 11th Generation Intel® Core™ Processors with Intel® Iris® Xe Graphics (Tiger Lake)
- 10th Generation Intel® Core™ processors with Intel Iris Plus graphics (Ice Lake)
- 10th Generation Intel® Core™ processors with Intel UHD Graphics (Comet Lake)
- 9th Generation Intel® Core™ processors, related Pentium®/Celeron® processors, and Intel Xeon® processors, with Intel UHD Graphics 630
- 8th Generation Intel® Core™ processors, related Pentium/ Celeron processors, and Intel Xeon processors, with Intel Iris Plus Graphics 655 and Intel UHD Graphics 610, 620, 630, P630.
- 7th Generation Intel® Core™ processors, related Pentium/ Celeron processors, and Intel Xeon processors, with Intel Iris Plus Graphics 640, 650 and Intel HD Graphics 610, 615, 620, 630, P630.
- 6th Generation Intel® Core™, Intel Core M, and related Pentium processors, with Intel Iris Graphics 540, Intel Iris Graphics 550, Intel Iris Pro Graphics 580, and Intel HD Graphics 510, 515, 520, 530.
- Intel Xeon processor E3-1500M v5 family with Intel HD Graphics P530
- Pentium/ Celeron processors with Intel HD Graphics 500, 505 and Intel UHD Graphics 600, 605
- Intel® Core™ Processors with Intel® Hybrid Technology (Lakefield)

CONTENTS OF THE PACKAGE:

- Intel Graphics Driver
- Intel Audio Driver 10.26.0.9 (6th Gen and related Pentium Silver and Celeron processors)
- Intel Audio Driver 10.27.0.9 (7th, 8th, 9th, 10th Gen)
- Intel Audio Driver 11.1.0.17 (10th Gen with Iris Plus Graphics)
- Intel Audio Driver 11.2.0.4 (Intel® Core™ Processors with Intel® Hybrid Technology)
- Intel Media SDK Runtime (10.0.0.046)
- Intel Graphics Compute Runtime for OpenCL™ Driver
- Intel Graphics Command Center
- Vulkan*[3] Runtime Installer
- Intel Graphics Driver Installer
- OneAPI Level Zero Loader and Validation Layer
- Intel® Graphics Compute Runtime for OneAPI Level Zero specification

OPERATING SYSTEM SUPPORT:

On 11th Generation Intel Core, 10th Generation Intel Core, 9th Generation Intel Core, 8th Generation Intel Core, 7th Generation Intel Core, and 6th Generation Intel Core processors, Intel Xeon processors for mobile workstations and related Pentium/Celeron processors:

- Microsoft Windows® 10-64 - Fall Creators Update (1709)
- Microsoft Windows® 10-64 - April 2018 Update (1803)
- Microsoft Windows® 10-64 - October 2018 Update (1809)
- Microsoft Windows® 10-64 – May 2019 Update (1903)
- Microsoft Windows® 10-64 – November 2019 Update (1909)
- Microsoft Windows® 10-64 – May 2020 Update (2004)
- Microsoft Windows® 10-64 – October 2020 Update (20H2)

KNOWN ISSUES:

- Iris Xe Graphics: Intermittent crash or hang may be seen in Cyberpunk 2077*, Hunt: Showdown*, Dark Souls III*, Horizon Zero Dawn* (DX12), Dirt 5* (DX12), Watch Dogs: Legion* (DX12) (when new campaign starts), Tom Clancy's Ghost Recon Breakpoint* (DX11), Call of Duty: Black Ops Cold War* (DX12), Halo 3: ODST* (during mission loading).
- Iris Xe Graphics: Minor graphic anomalies may be observed in World of Warcraft*(DX12), Star Wars Battlefront 2* (DX12), Wolfenstein: Youngblood* (Vulkan), Gears of War Inmate Edition* (DX12), Far Cry: New Dawn* (when starting from a saved file), Atelier Ryza: Ever Darkness & the Secret Hideout*, Tom Clancy's Ghost Recon Breakpoint* (DX11).
- Iris Plus Graphics and higher: Intermittent crash or hang may be seen in Destiny 2* (with anti-cheat enabled), Call of Duty: Modern Warfare* (DX12).
- Iris Plus Graphics and higher: Minor graphics anomalies may be observed in Mount & Blade II: Bannerlord* (DX11), Yakuza Like a Dragon*.
- Panel Self Refresh may be disabled while unplugging or plugging AC power during video playback (Iris Xe Graphics).
- Minor Graphic Anomalies may be seen in ARK: Survival Evolved* (DX11) and Call of Duty: Modern Warfare* (DX12) when Image Sharpening enabled in Intel Graphics Command Center on Iris Xe graphics.
- YouCam Camera Preview & Video Playback may be black.
- Intermittent crash or hang seen in Paladins Steam game on Intel® Core™ Processors with Intel® Hybrid Technology.
- Screen shows garbage when change resolution under OS with 1366*768 panel on 10th Generation Intel® Core™ processors with Intel UHD Graphics.

SUPPORTED PRODUCTS:

HARDWARE

All platforms with the following configurations are supported:

Intel Graphics[1]	DirectX*[4]	OpenGL*	OpenCL	Vulkan*	Intel Quick Sync Video
11th Generation Intel Core processors with Intel® Iris® Xe Graphics	12	4.6	3.0[*i]	1..2	Yes
10th Generation Intel Core processors with Intel Iris Plus Graphics	12	4.6	2.1	1..2	Yes
10th Generation Intel Core processors with Intel UHD Graphics	12	4.6	2.1	1.2	Yes
9th Generation Intel Core processors with Intel UHD Graphics 630	12	4.6	2.1	1.2	Yes
8th Generation Intel Core processors with Intel Iris Plus Graphics 655	12	4.6	2.1	1.2	Yes
8th Generation Intel Core processors with Intel UHD Graphics 610/620/630/P630	12	4.6	2.1	1.2	Yes
7th Generation Intel Core processors with Intel Iris Plus Graphics 640/650	12	4.6	2.1	1.2	Yes
7th Generation Intel Core processors with Intel HD Graphics 610/615/620/630	12	4.6	2.1	1.2	Yes
Intel Xeon processor E3-1500M v5 family with Intel HD Graphics P630	12	4.6	2.1	1.2	Yes
Pentium Processors with Intel HD Graphics 610	12	4.6	2.1	1.2	Yes
6th Generation Intel Core processors with Intel Iris Pro Graphics 580	12	4.6	2.0	1.2	Yes
6th Generation Intel Core processors with Intel Iris Graphics 540/550	12	4.6	2.0	1.2	Yes
6th Generation Intel Core processors with Intel HD Graphics 520/530	12	4.6	2.0	1.2	Yes
Intel Xeon processor E3-1500M v5 family with Intel HD Graphics P530	12	4.6	2.0	1.2	Yes
Intel Xeon processor E3-1500M v5 family with Intel Iris Pro Graphics P580	12	4.6	2.0	1.2	Yes
Intel Core M processors with Intel HD Graphics 515	12	4.6	2.0	1.2	Yes
Pentium and Celeron processors with Intel HD Graphics 500/505/510	12	4.6	1.2	1.2	Yes
Pentium and Celeron processors with Intel UHD Graphics 600/605	12	4.6	1.2	1.2	Yes
Intel® Core™ Processors with Intel® Hybrid Technology	12	4.6	2.1	1.2	Yes

Note[*i]: "*Product is based on a published Khronos Specification and has been submitted to, and expected to pass, the Khronos Conformance Process. Current conformance status can be found at www.khronos.org/conformance.*"

If you are uncertain of which Intel processor is in your computer, Intel recommends using the Intel Processor Identification Utility or Install the Intel Driver & Support Assistant (previously called Intel Driver Update Utility) to identify your Intel processor.

More on Intel Core Processors

For more information on the Intel Core processor family, Intel Xeon E processor family, and 11th Generation Intel Core processors, please visit:

Intel 11th Generation Core Processors
http://www.intel.com/content/www/us/en/processors/core/core-processor-family.html
http://www.intel.com/content/www/us/en/processors/xeon/xeon-processor-e3-family.html
http://www.intel.com/graphics

Be sure to check out **gameplay.intel.com**, where you'll find recommended in-game settings for your Intel Graphics system for many more of your favorite games.

We continuously strive to improve the quality of our products to better serve our users and appreciate feedback on any issues you discover and suggestions for future driver releases. If you have an issue to submit, ***please follow the guidance found here*** Default level information for reporting Graphics issues.

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* Other names and brands may be claimed as the property of others.

*[1] Intel Labs conducts independent testing of supported titles on Intel platforms to ensure playability. Please refer to publisher system requirements to ensure compatibility with your system.

[2] Graphics Driver Smart Installer Enhancement allows end-users to upgrade systems with OEM DCH drivers to newer Intel generic DCH drivers. OEM customizations are preserved during this upgrade process, in accordance with Microsoft DCH driver design principles (refer to Microsoft documentation, "Extension INF Publishing Whitepaper" to learn more). The installer will continue to restrict OEM non-DCH to Intel Generic non-DCH upgrades as well as OEM non-DCH to Intel Generic DCH driver upgrades. End-users will continue to be referred to OEM websites.

WARNING: Installing this Intel generic graphics driver will overwrite your Computer Manufacturer (OEM) customized driver. OEM drivers are handpicked, customized, and validated to resolve platform-specific issues, enable features and enhancements, and improve system stability. The generic driver's intention is to temporarily test new features, game enhancements, or check if an issue is resolved. Once testing is complete Intel advises reinstalling the OEM driver until they validate it and release their own version.

Any graphics issues found using Intel generic graphics drivers should be reported directly to Intel. Corporate customers should always use OEM drivers and report all issues through the vendor they purchased the platforms and support through.

[3] Product is conformant with the Vulkan 1.2 specification. Vulkan* and the Vulkan* logo are registered trademarks of the Khronos Group Inc*.

[4] In the Intel Graphics Command Center (System > Driver), the 'Microsoft DirectX version refers to the operating system's DirectX version. The DirectX 12 API is supported but some optional features may not be available. Applications using the DirectX 12 API should query for feature support before using specific hardware features. Please note that DirectX12 is only supported on Windows 10 and DirectX11.3 support is also available on supported Microsoft* operating systems.