

# Release Notes



**DRIVER VERSION: 30.0.100.9955**

**DATE: October 14, 2021**

## DEVELOPER HIGHLIGHTS:

- Support for H264 and HEVC DX12 video encode on Microsoft Windows® 11 for 10<sup>th</sup> Generation Intel® Core™ Processors with Intel® Iris® Plus graphics and higher.

## KEY ISSUES FIXED:

- Minor graphic anomalies seen in **Cyberpunk 2077\*** (DX12), **Hitman 2\*** (DX12), **Wolfenstein: Youngblood\*** (Vulkan).
- Minor graphic anomalies seen in **Monster Jam Steel Titans 2\***, **Ark Survival Evolved\*** (when Intel Sharpening Filter is enabled) on 11<sup>th</sup> Generation Intel® Core™ Processors with Intel® Iris® X<sup>e</sup> graphics.
- Black screen seen in **Rage 2\*** (Vulkan) (after ALT + TAB) on 11<sup>th</sup> Generation Intel® Core™ Processors with Intel® Iris® X<sup>e</sup> graphics.
- Intermittent crash or hang seen in **Ark: Survival Evolved\*** (during launch), **Star Wars: Squadrons\*** (during launch), **Warframe\*** (DX12) on Intel® Iris® X<sup>e</sup> Discrete graphics.
- Minor graphic anomalies seen in **Euro Truck Simulator 2\***, **Marvel's Avengers\*** (DX12), **Metro Exodus\*** (DX12) on Intel® Iris® X<sup>e</sup> Discrete graphics.

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

## KNOWN ISSUES:

- Intermittent crash or hang may be seen in Call of Duty: Black Ops Cold War\* (DX12), Forza Horizon 4\* (DX12) (after launch), The Sims 4\* (hot plug or unplug of external display).
- Minor graphic anomalies may be observed in Dead by Daylight\*, Death Stranding\* (DX12), Forza Horizon 4\* (DX12). Microsoft Flight Simulator\* (during installation), Red Dead Redemption 2\* (DX12), Red Dead Redemption\* (Vulkan) (while pressing ESC), Resident Evil Village\* (DX12) (while pressing ESC), Shadow of the Tomb Raider\* (DX12), The Surge 2\* (Vulkan), Tom Clancy's Ghost Recon Breakpoint\*.
- 11<sup>th</sup> Generation Intel® Core™ Processors with Intel® Iris® Xe graphics: Crash or hang may be seen in Breathedge\*, Deathloop\* (DX12), Detroit: Become Human\* (Vulkan), FIFA 21\*, Moonlight Blade\* (DX12), NBA 2K21\* (DX12) (when switching resolution from 1920 x 1080 to 1600 x 900 and 1280 x 720), Necromunda: Hired gun\* (DX12) (Shadow option other than low), Red Dead Redemption\* (Vulkan), The Dark Pictures: Man of Medan\* (online mode), Vendetta Online\* (Vulkan).
- 11<sup>th</sup> Generation Intel® Core™ Processors with Intel® Iris® Xe graphics: Black screen may be seen in Arma 3\* (when changing display mode to windowed or full screen).
- 11<sup>th</sup> Generation Intel® Core™ Processors with Intel® Iris® Xe graphics: Minor graphic anomalies may be seen in Adobe Premiere Pro 2020 during video playback, Call of the Sea\*, Crysis Remastered\*, Dark Souls 3\*, Elex\*, Gears of War Ultimate Edition\* (DX12), Gears 5\* (DX12), Just Cause 4 \*, Mount & Blade II: Bannerlord\*.
- Intel® Iris® Xe Discrete graphics: Intermittent crash or hang may be seen in Conan Exiles\* (Low End Laptop Mode" in game settings), Doom Eternal\* (Vulkan), Forza Motorsport 6\* (DX12), Spyro: Reignited Trilogy\*.
- Intel® Iris® Xe Discrete graphics: Crash or hang may be seen when launching Batman: Arkham City\*, Outriders\* (DX12).
- Intel® Iris® Xe Discrete graphics: Minor graphic anomalies may be observed in Assassin's Creed Valhalla\* (DX12), Code Vein\*, GRID 2019\* (DX12), Rocket League\* (when CMAA Enabled).
- 11<sup>th</sup> Generation Intel® Core™ Processors with Intel® Iris® Xe graphics: Display is getting blanked out with 4K@60hz resolution connected via dock.
- 11<sup>th</sup> Generation Intel® Core™ Processors with Intel® Iris® Xe graphics: Thunderbolt display may not turn on after HDR is enabled for built-in display.

## CONTENTS OF THE PACKAGE:

- Intel® Graphics Driver
- Intel® Display Audio Driver 10.26.0.11 (6<sup>th</sup> Gen and related Pentium Silver and Celeron processors)
- Intel® Display Audio Driver 10.27.0.11 (7<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup> Gen Intel® Core™ processors)
- Intel® Display Audio Driver 11.1.0.19 (10<sup>th</sup> Gen Intel® Core™ processors with Iris Plus Graphics)
- Intel® Display Audio Driver 11.2.0.9 (Intel® Core™ Processors with Intel® Hybrid Technology)
- Intel® Media SDK Runtime (21.0.1.35)
- Intel® oneVPL<sup>6</sup> GPU Runtime (21.0.2.5)
- Intel® Graphics Compute Runtime for OpenCL\* Driver
- Intel® Graphics Command Center (installed via Microsoft\* Store)
- Vulkan\*<sup>3</sup> Runtime Installer
- Intel® Graphics Driver Installer (1.0.520)
- OneAPI Level Zero Loader and Validation Layer
- Intel® Graphics Compute Runtime for OneAPI Level Zero specification

## OPERATING SYSTEM SUPPORT:

| Intel Graphics <sup>1</sup>   | Microsoft Windows <sup>®</sup> 11 | Microsoft Windows <sup>®</sup> 10 64-bit May 2021 Update (21H1) | Microsoft Windows <sup>®</sup> 10 64-bit October 2020 Update (20H2) | Microsoft Windows <sup>®</sup> 10 64-bit May 2020 Update (2004) | Microsoft Windows <sup>®</sup> 10 64-bit November 2019 Update (1909) | Microsoft Windows <sup>®</sup> 10 64-bit May 2019 Update (1903) | Microsoft Windows <sup>®</sup> 10 64-bit October 2018 Update (1809) |
|---|-----------------------------------|---|---|---|--|---|---|
| <b>11th Generation Intel<sup>®</sup> Core™ H-Series mobile Processors with Intel<sup>®</sup> Iris<sup>®</sup> X<sup>e</sup> graphics (Codename Tiger Lake - H)</b>  | X                                 | X   | X   | -   | -  | -   | -   |
| <b>11th Generation Intel<sup>®</sup> Core™ Processors with Intel<sup>®</sup> UHD graphics (Codename Rocket Lake)</b>  | X                                 | X   | X   | -   | -  | -   | -   |
| <b>Intel<sup>®</sup> Iris<sup>®</sup> X<sup>e</sup> Discrete Graphics (Codename DG1)</b>  | X                                 | X   | X   | X   | -  | -   | -   |
| <b>Intel<sup>®</sup> Pentium<sup>®</sup> Processor family and Intel<sup>®</sup> Celeron<sup>®</sup> Processor family (Codename Jasper Lake)</b>   | X                                 | X   | X   | X   | X  | -   | -   |
| <b>11th Generation Intel<sup>®</sup> Core™ Processors with Intel<sup>®</sup> Iris<sup>®</sup> X<sup>e</sup> graphics (Codename Tiger Lake)</b>  | X                                 | X   | X   | X   | X  | -   | -   |
| <b>Intel<sup>®</sup> Core™ Processor with Intel<sup>®</sup> Hybrid Technology (Codename Lakefield)</b>  | X                                 | X   | X   | X   | X  | -   | -   |
| <b>Intel<sup>®</sup> Atom<sup>®</sup>, Pentium<sup>®</sup> and Celeron<sup>®</sup> processor family (Codename Elkhart Lake)</b>   | X                                 | X   | X   | X   | X  | X   | X   |
| <b>10th Generation Intel<sup>®</sup> Core™ processors with Intel Iris Plus graphics (Codename Ice Lake)</b>   | X                                 | X   | X   | X   | X  | X   | -   |
| <b>10th Generation Intel<sup>®</sup> Core™ processors with Intel UHD Graphics (Codename Comet Lake)</b>   | X                                 | X   | X   | X   | X  | X   | -   |
| <b>9th Generation Intel<sup>®</sup> Core™ processors, related Pentium<sup>®</sup>/Celeron<sup>®</sup> processors, and Intel Xeon<sup>®</sup> processors, with Intel UHD Graphics 630 (Codename Coffee Lake-R)</b>   | X                                 | X   | X   | X   | X  | X   | -   |
| <b>8th Generation Intel<sup>®</sup> Core™ processors, related Pentium/ Celeron processors, and Intel Xeon processors, with Intel Iris Plus Graphics 655 and Intel UHD Graphics 610, 620, 630, P630 (Codename Kaby Lake-R, Coffee Lake)</b>  | X                                 | X   | X   | X   | X  | X   | -   |
| <b>Intel<sup>®</sup> Pentium<sup>®</sup> and Celeron<sup>®</sup> processor family (Codename Gemini Lake)</b>  | -                                 | X   | X   | X   | X  | X   | -   |
| <b>7th Generation Intel<sup>®</sup> 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 (Codename Kaby Lake)</b>  | -                                 | X   | X   | X   | X  | X   | -   |
| <b>6th Generation Intel<sup>®</sup> Core™, Intel Core™ M, and related Pentium<sup>®</sup> processors with Intel<sup>®</sup> Iris™ Graphics 540, Intel<sup>®</sup> Iris™ Graphics 550, Intel<sup>®</sup> Iris™ Pro Graphics 580, and Intel<sup>®</sup> HD Graphics 510, 515, 520, 530 (Codename Skylake)</b> | -                                 | X   | X   | X   | X  | X   | -   |

## SUPPORTED APIs:

| Intel Graphics <sup>1</sup>   | DirectX <sup>**4</sup> | OpenGL <sup>*</sup> | OpenCL <sup>*</sup> | One API <sup>*5</sup> Level Zero | Vulkan <sup>*3</sup> | OneVPL <sup>*6</sup> GPU RT |
|---|------------------------|---------------------|---------------------|----------------------------------|----------------------|-----------------------------|
| Intel Iris X <sup>e</sup> Discrete Graphics family and 11 <sup>th</sup> Generation Intel Core processors with Intel <sup>®</sup> Iris <sup>®</sup> X <sup>e</sup> Graphics:   | 12                     | 4.6                 | 3.0                 | 1.1 <sup>5</sup>                 | 1.2                  | 2.5                         |
| 10 <sup>th</sup> Generation Intel Core processors, 9 <sup>th</sup> Generation Intel Core processors, 8 <sup>th</sup> Generation Intel Core processors, 7 <sup>th</sup> Generation Intel Core processors and related Intel Xeon/ Pentium/Celeron processors: | 12                     | 4.6                 | 3.0                 | 1.1 <sup>5</sup>                 | 1.2                  | -                           |
| 6 <sup>th</sup> Generation Intel <sup>®</sup> Core™ processors:   | 12                     | 4.6                 | 3.0                 | 1.1 <sup>5</sup>                 | 1.2                  | -                           |
| Pentium <sup>®</sup> and Celeron <sup>®</sup> Processors with Intel <sup>®</sup> HD Graphics 500/505, Pentium and Celeron processors with Intel UHD Graphics 600/605:   | 12                     | 4.6                 | 3.0                 | -                                | 1.2                  | -                           |

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

Be sure to check out [gameplay.intel.com](http://gameplay.intel.com), where you'll find recommended in-game settings for your Intel Graphics system for many more of your favorite games.

**Note:**

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.
5. One API Level Zero API version is pre-release version supported on 6<sup>th</sup> generation Intel® Core™ processors and above. Note that Intel® Atom processors are not supported.
6. [Intel® One API Video Processing Library](#) GPU Runtime\* release – more details below
  - a. Intel® OneAPI Video Processing Library Specification:  
<https://spec.oneapi.io/versions/latest/elements/oneVPL/source/index.html>
  - b. [Upgrading from Intel® Media SDK to Intel® oneAPI Video Processing Library](#)
7. See the [Windows Subsystem for Linux Installation Guide](#) for Windows 10 onwards for more details about how to install a supported Linux distribution.

**More on Intel Core Processors**

For more information on the Intel Core processor family, Intel Xeon E processor family, and 11<sup>th</sup> 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>

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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