Release Notes

intel.

DRIVER VERSION: 31.0.101.4514 BETA

DATE: June 27, 2023

GAMING HIGHLIGHTS:

Intel® Game On Driver support on Intel® Arc™ A-series Graphics for:

- **AEW: Fight Forever***
- **Layers of Fear***

Game performance improvements versus Intel® 31.0.101.4502 software driver for:

- **Assassin's Creed Unity* (DX11)**
    - **Up to 271% uplift at 1080p with Very High settings**
    - **Up to 313% uplift at 1440p with High settings**
- **F1 22* (DX12)**
    - **Up to 36% uplift at 1080p with High settings**
    - **Up to 20% uplift at 1440p with High settings**
    - **Up to 10% uplift at 1080p with Ultra High settings and all Ray Tracing settings on**
- **Deathloop* (DX12)**
    - **Up to 10% uplift at 1080p with Ultra settings**
    - **Up to 8% uplift at 1440p with Very High settings**

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KNOWN ISSUES:

Intel® Arc™ Graphics Products:

- System may hang while waking up from sleep. May need to power cycle the system for recovery.
- GPU hardware acceleration may not be available for media playback and encode with some versions of Adobe Premiere Pro.
- Topaz Video AI* may experience errors when using some models for video enhancement.
- Streaming Dota 2* using XSplit Broadcaster* may exhibit corruption in Game Capture mode.
- Blender* 3.6 may experience an application crash during render operations when Hardware Ray Tracing is enabled

Intel® Iris™ Xᵉ MAX Graphics Products:

- Driver installation may not complete successfully on certain notebook systems with both Intel® Iris™ Xᵉ + Iris™ Xᵉ MAX devices. A system reboot and re-installation of the graphics driver may be required for successful installation.

Intel® Core™ Processor Products:

- Total War: Warhammer III* (DX11) may experience an application crash when loading battle scenarios.

- Call of Duty Warzone 2.0* (DX12) may exhibit corruption on certain light sources such as fire.
- Conqueror's Blade* (DX12) may experience an application crash during game launch.
- A Plague Tale: Requiem* (DX12) may experience application instability during gameplay.

INTEL® ARC™ CONTROL KNOWN ISSUES:

- Using Arc Control Studio capture with certain games may incorrectly generate multiple video files.
- With Intel® Arc Control installed, systems may experience slightly higher than expected power consumption during system sleep or hibernate.
- May observe "could not stop Highlights" notification when stopping Auto-Game Highlights.
- The Camera on-screen preview may incorrectly persist when switching between Desktop and Overlay modes.
- The "Connector" type in the Display page may incorrectly show DP* when using an HDMI* display connection.
- Arc Control may become unresponsive after a driver upgrade. A workaround is to perform a clean driver installation using Display Driver Uninstaller.

Intel® Arc™ Control Performance Tuning (BETA):
- Intel® Arc™ Control Performance Tuning is currently in Beta. As such, performance and features may behave unexpectedly. Intel® will continue to refine the Performance Tuning software in future releases.

NOTES:

- Take your system lighting to the next level with Intel® Arc™ RGB Controller. Intel® Arc™ RGB Controller was custom designed to allow users to harness 90 individually addressable LEDs on Intel® Arc™ A770 Graphics Limited Edition cards. Intel® Arc™ RGB Controller is available for download here.
  - Supported on Intel® Arc™ A770 Graphics Limited Edition on Windows®10 and Windows®11.
  - Intel® and Cooler Master* collaborated on the creation of this software.
  - For more information on how to enable the RGB lighting for your Intel® Arc™ A770 Graphics Limited Edition card, see the Intel® Arc™ A-Series Graphics – Desktop Quick Start Guide.

CONTENTS OF THE PACKAGE:

- Intel® Graphics Driver
- Intel® Media SDK Runtime (21.0.1.35)
- Intel® oneVPL GPU Runtime (21.0.2.9)
- Intel® Graphics Compute Runtime for OpenCL* Driver
- Vulkan*3 Runtime Installer
- Intel® Graphics Driver Installer (1.0.790.5)
- oneAPI Level Zero Loader and Validation Layer
- Intel® Graphics Compute Runtime for OneAPI Level Zero specification
- Intel® Arc™ Control installer (1.69.5033.3)
- Intel® Driver Support Assistant

OPERATING SYSTEM SUPPORT:

Intel Graphics[1]	Microsoft Windows® 11 64-bit September 2022 Update (22H2)	Microsoft Windows® 11 64-bit October 2021 Update (21H2)	Microsoft Windows® 10 64-bit October 2022 Update (22H2)	Microsoft Windows® 10 64-bit November 2021 Update (21H2)	Microsoft Windows® 10 64-bit May 2021 Update (21H1)	Microsoft Windows® 10 64-bit October 2020 Update (20H2)
Intel ® Arc™ A770, A750, A310, A770M, A550M, A380, A730M, A370M and A350M Graphics (Codename Alchemist)	X	X	X	X	X	X
13th Generation Intel Core Processors with Intel UHD Graphics (Codename Raptor Lake-S, Raptor Lake-HX, Raptor Lake-H, Raptor Lake-P, Raptor Lake-U)	X	X	X	X	X	X
12th Generation Intel Core Processors with Intel Iris Xe Graphics and Intel UHD Graphics (Codename Alder Lake-H, Alder Lake-P, Alder Lake-U, Alder Lake-S, Alder Lake-HX, Alder Lake-N)	X	X	X	X	X	X
11th Generation Intel Core Processors with Intel Iris Xe Graphics and Intel UHD Graphics (Codename Tiger Lake, Tiger Lake–H, Rocket Lake)	X	X	X	X	X	X
Intel Iris Xe Discrete Graphics (Codename DG1)	X	X	X	X	X	X

SUPPORTED APIs:

API	Version	Intel Graphics[1]
DirectX*[4]	12	11th Generation Intel® Core™ processors and higher
Vulkan* [3]	1.3	11th Generation Intel® Core™ processors and higher
OpenGL*	4.6	11th Generation Intel® Core™ processors and higher
OpenCL*	3.0	11th Generation Intel® Core™ processors and higher
Intel® oneAPI*[5] Level Zero	1.10[5]	11th Generation Intel® Core™ processors and higher
Intel® oneAPI Video Processing Library*[6] GPU RT	2.9	11th Generation Intel® Core™ processors and higher and Xe Graphics and newer

If you are uncertain of which Intel processor is in your computer, Intel recommends using the or Intel Driver & Support Assistant to identify your Intel processor.

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. Are you still experiencing an error preventing the driver update? Look here for **why and a solution**. 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* 1.3 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. Intel® oneAPI Level Zero version is supported on 6th generation Intel® Core™ processors and above. Note that Intel® Atom processors are not supported.

6. Intel® oneAPI 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.

8. Game performance testing from Intel as of June 26 using the following configuration: Intel Core i9-13900K, ASUS ROG MAXIMUS Z790 HERO, 32GB Corsair DOMINATOR Platinum RGB DDR5 @ 5600MHz, OS: Microsoft Windows 11 Pro 22621.1848, Discrete Graphics: Intel® Arc™ A750 Limited Edition, Graphics Driver: 31.0.101.4514 Beta, 31.0.101.4502 WHQL, Motherboard BIOS: v1202. Performance may vary.

More on Intel Products

For more information on Intel Processors and Intel Graphics, please visit:

[Intel® Arc™ Graphics](#)
[13th Gen Intel® Core™ Processor Family](#)
[12th Gen Intel® Core™ Processors](#)
[Intel® Core™ Processor Family](#)
[Intel® Xeon® E Processors](#)
[Intel® 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](#).