# Release Notes

**DRIVER VERSION: 26.20.100.8141**
**DATE: April 27, 2020**

## GAMING HIGHLIGHTS[*1]:

Command your squad in pulse-pounding, turn-based battles against the ruthless Locust army and its leader in **Gears Tactics**\* and control Chimera Squad to extinguish the threats to the hard-won peace and stability that City 31 now enjoys in **XCOM: Chimera Squad**\* on Intel® Iris Plus graphics or better.

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.

Get a front row pass to gaming deals, contests, betas, and more with Intel Software Gaming Access.

## DEVELOPER HIGHLIGHTS:

OneAPI Level Zero Runtime\*[i] pre-production release is now included. Please refer to the specification below.
- OneAPI Specification:  https://spec.oneapi.com/versions/latest/introduction.html
- OneAPI Level Zero Specification:  https://spec.oneapi.com/versions/latest/oneL0/index.html

## HIGHLIGHTS:

**Unlocked Driver**\*[2]: We heard how much our users want the freedom to upgrade their systems to our regularly released generic graphics drivers and enable our latest game optimizations, feature updates and fixes. Well, as of this release, Intel Graphics DCH drivers are now unlocked to upgrade freely between Computer Manufacturer (OEM) drivers and the Intel Generic graphics drivers on Download Center. Simply use the exe and enjoy the update on your 6th Generation Intel Processor platform or higher, and don't worry about your OEM customizations, they remain intact with each upgrade and the OEMs can maintain customizations separately via Microsoft\* Windows Update. Intel Drivers and Support Assistant will also be unlocked starting April 28th, 2020.

## KEY ISSUES FIXED:

- Intermittent crashes may be seen in **DOOM: Eternal**\* (Vulkan), **The Surge 2**\* (Vulkan), Spark AR Studio\* on 6th Generation Intel Core processors and higher.
- **Black Desert Online**\* may exit upon loading the game on10th Generation Intel Core processors with Intel Iris® Plus graphics.
- Minor graphics anomalies may be observed in **Tom Clancy's Rainbow Six Siege**\* (Vulkan) on 10th Generation Intel Core processors with Intel Iris® Plus graphics.
- Display Color may be observed when changing Saturation in Intel Graphics Command Center on 10th Generation Intel Core processors with Intel Iris® Plus graphics.
- Corruption observed followed by TDR while trying to maximize and minimize the content in  Power DVD application.

This document provides information about Intel Graphics Driver for:

- 10th Generation Intel Core processors with Intel Iris Plus graphics and UHD Graphics.
- 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

## 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 11.1.0.16 (10th Gen with Iris Plus Graphics)
- Intel Media SDK Runtime (10.0.0.009)
- Intel Graphics Compute Runtime for OpenCL™ Driver
- Intel Graphics Command Center
- Vulkan*3 Runtime Installer (1.2.131.0)
- Intel Graphics Installer (1.7.101)
- OneAPI Level Zero Loader and Validation Layer
- Intel® Graphics Compute Runtime for OneAPI Level Zero specification

**Note*i**
The OneAPI Level Zero Loader relies upon a registry entry to find the path to the Intel® Graphics Compute Runtime driver, which is configured during installation.
A standalone OneAPI Level Zero SDK is not yet available, but the necessary headers and libraries can be downloaded and built from: https://github.com/oneapi-src/level-zero

## OPERATING SYSTEM SUPPORT:

On 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)

## KNOWN ISSUES:

- Video playback issues when playing Netflix 4K video content sometimes on HDMI 2.0.
- Intermittent crashes may be seen in Red Dead Redemption 2* (Vulkan), BeamNG.drive*, One Piece Pirate Warriors 4*, Star Control: Origins, Tom Clancy's Ghost Recon Breakpoint (Vulkan), Metro Exodus (DX12) and while launching Sony Catalyst Production Suite.
- Minor graphics anomalies may be observed in Battlefield V* (DX12), and Zombie Army 4: Dead War* (Vulkan).

# SUPPORTED PRODUCTS:

## HARDWARE

All platforms with the following configurations are supported:

| Intel Graphics[1] | DirectX*[4] | OpenGL* | OpenCL | Vulkan* | Intel Quick Sync Video |
|---|---|---|---|---|---|
| 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 |

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 10th Generation Intel Core processors, please visit:

Intel 10th 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

*Work and play in high resolution with Intel UHD Graphics, Intel Iris Graphics, Intel Iris Plus Graphics, and Intel Iris Pro Graphics. Watch captivating 4K Ultra HD (UHD) video on up to three screens, edit photos and videos like a pro, and immerse yourself in vividly rendered, seamless 3D gameplay – all with the added power boost of an Intel Core processor. Intel Graphics bring stunning visuals to thinner and lighter portable devices, like laptops, 2 in 1s, and desktop computers.*

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.