

# Release Notes

**DRIVER VERSION: 15.45.19.4678**

(Windows Driver Store Version 21.20.16.4678)

**DATE: June 2, 2017**

## SUMMARY:

- **DiRT 4\* Launch Day Driver**
- **Tekken™ 7 Launch Day Driver**

Drift down the finish line or conquer the arena as you enjoy performance optimizations and playability improvements at release of the anticipated games, [DiRT 4\\*](#) and [Tekken™ 7](#) on processors with Intel® HD Graphics 620 or better.

Run, jump, and blast your way through these summer game releases on Intel® Iris™ Pro Graphics:

- Prey\*
- Rising Storm 2: Vietnam\*

Other Intel® products may benefit from these optimizations as well. Visit [gameplay.intel.com](http://gameplay.intel.com) for recommended game settings for many of your favorite PC games.

This driver provides important security enhancements, as well as:

- **Game Load-time Improvements:**

Get back in the battle quicker with significantly reduced load-times in many popular titles, including [Star Wars™ Battlefront](#), [Mass Effect™: Andromeda](#), [Rise of the Tomb Raider™](#), [Battlefield 1™](#), and other games.

- **Game Performance Improvements:**

Keep the enemy in your sights with performance improvements and smoother gameplay on the games, [World of Warcraft®: Legion](#), [Tom Clancy's The Division™](#), and [For Honor™](#).

This document provides information about Intel's Graphics Driver for:

- 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 processors, 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

## CONTENTS OF THE PACKAGE:

- Intel® Graphics Driver
- Intel® Display Audio Driver
- Intel® Media SDK Runtime
- Intel® OpenCL\* Driver
- Intel® Graphics Control Panel
- Vulkan\* Runtime Installer

## KEY ISSUES FIXED:

<ul style="list-style-type: none"> <li>Video stuttering may be observed within certain cut-scenes in Battlefield 1™.</li> <li>Long load times may be observed in including Star Wars™ Battlefront, Mass Effect™: Andromeda, Rise of the Tomb Raider™, and other games</li> </ul>	Windows 10®, Windows 8.1*, Windows 7*
Loss of audio may be observed in The Elder Scrolls V: Skyrim Special Edition* when connecting a NUC to an external monitor via HDMI/DP	Windows 10®
Audio issues may be observed when operating a USB type-c display in 'second screen only' mode	Windows 10®
Miracast stability improvements: <ul style="list-style-type: none"> <li>Rotating PC to 'Portrait Mode' extends the wireless display to wide.</li> </ul>	Windows 10®
Netflix* playback improvements	Windows 10®, Windows 8.1*, Windows 7*
Stability improvements in Overclocking	Windows 10®, Windows 8.1*, Windows 7*
Minor graphical anomalies may be observed in Unigine Benchmarks and other DX9 apps, as well as with some apps with D3D9 overlays	Windows 10®

## SUPPORTED PRODUCTS:

### HARDWARE

All platforms with the following configurations are supported:

Intel® Graphics <sup>1</sup>	DirectX* <sup>2</sup>	OpenGL*	OpenCL*	Vulkan*	<a href="#">Intel® Quick Sync Video</a>
<b>7th Generation Intel® Core™ processors with Intel® Iris™ Plus Graphics 640/650</b>	12	4.4	2.1	1.0.31	Yes
<b>7th Generation Intel® Core™ processors with Intel® HD Graphics 610/615/620/630</b>	12	4.4	2.1	1.0.31	Yes
<b>Intel® Xeon® processor E3-1500M v5 family with Intel® HD Graphics P630</b>	12	4.4	2.1	1.0.31	Yes
<b>Pentium Processors with Intel® HD Graphics 610</b>	12	4.4	2.1	1.0.31	Yes
<b>6th Generation Intel® Core™ processors with Intel® Iris™ Pro Graphics 580</b>	12	4.4	2.0	1.0.31	Yes
<b>6th Generation Intel® Core™ processors with Intel® Iris™ Graphics 540/550</b>	12	4.4	2.0	1.0.31	Yes
<b>6th Generation Intel® Core™ processors with Intel® HD Graphics 520/530</b>	12	4.4	2.0	1.0.31	Yes
<b>Intel® Xeon® processor E3-1500M v5 family with Intel® HD Graphics P530</b>	12	4.4	2.0	1.0.31	Yes
<b>Intel® Xeon® processor E3-1500M v5 family with Intel® Iris Pro Graphics P580</b>	12	4.4	2.0	1.0.31	Yes
<b>Intel® Core™ M processors with Intel® HD Graphics 515</b>	12	4.4	2.0	1.0.31	Yes
<b>Pentium® and Celeron® Processors with Intel® HD Graphics 500/505</b>	12	4.2	1.2	1.0.31	Yes

## SOFTWARE

On 7<sup>th</sup> Generation Intel Core processors and related Pentium/Celeron:

- Microsoft Windows 10® 64-bit

On 6<sup>th</sup> Generation Intel Core and Intel Mobile Xeon processors and related Pentium/Celeron:

- Microsoft Windows 10® 64-bit
- Microsoft Windows 8.1\* 64-bit
- Microsoft Windows 7\* 64-bit

Note:

1. If you are uncertain of which Intel processor is in your computer, Intel recommends using the [Intel Processor Identification Utility](#) or [Intel Driver Update Utility](#) to identify your Intel processor.
2. In the Intel® Iris™ and HD Graphics Control Panel (under Options > Options menu > Information Center), the 'Installed DirectX\* version' refers to the operating system's DirectX version. The Information Center's 'Supported DirectX\* Version' refers to the Intel Graphics Driver's supported 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.

## KNOWN ISSUES

- Graphics anomalies may be observed in Euro Truck Simulator 2\*, Fallout® 4, Guild Wars™ 2, Deus Ex™: Mankind Divided, Assassin's Creed® Syndicate, Guilty Gear Xrd\*, Titanfall® 2, as well as in some DX9 games
- Intermittent crashes or hangs may occur in Tom Clancy's The Division™, Batman: The Telltale Series\*
- Abnormal behavior observed in PowerDVD\* on 3D content playback in Windows 10®
- In extended display mode, HDCP may not work after video standby when using a type-C to HDMI adapter
- Menu bars may not appear in HDR Expose 3\*

## More on Intel® Core™ processors

For more information on the Intel® Core™ processor family, Intel® Xeon® processor E3 family, and 7<sup>th</sup> Generation Intel® Core processors, please visit:

[Intel® 7<sup>th</sup> 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® HD Graphics, Iris™ Graphics, Iris™ Plus Graphics, and 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](#).

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