

Release Notes

VERSION: Intel® Graphics Driver Production Version DCH 25.20.100.6471

DATE: December 14, 2018

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SUPPORTED OPERATING SYSTEMS:

- Microsoft Windows* 10 -64 RS4
- Microsoft Windows* 10 -64 RS5

SUPPORTED PRODUCTS:

- 6th Gen Intel(R) Core(TM) processor family (Codename Skylake)
- 7th Gen Intel(R) Core(TM) processor family (Codename Kaby Lake)
- 8th Gen Intel(R) Core(TM) processor family (Codename Kaby Lake-R, Coffee Lake)
- 9th Gen Intel(R) Core(TM) processor family (Codename Coffee Lake-R)
- Amber Lake
- Apollo Lake
- Gemini Lake
- Whiskey Lake

REVISION HISTORY:

Date	Driver Revision	Description	Build Number
December 14, 2018	Production Version DCH 100.6471	Production Version Build; fully validated	100.6471
November 15, 2018	Production Version DCH 100.6444	Production Version Build; fully validated	100.6444
November 5, 2018	Production Version DCH 100.6374	Production Version Build; fully validated	100.6374
September 28, 2018	Production Version DCH 100.6325	Production Version Build; fully validated	100.6325
August 29, 2018	Beta DCH 100.6310	Beta Build; not fully validated	100.6310
August 1, 2018	Alpha DCH 100.6272	Alpha Build; not fully validated	100.6272

FEATURES:

New Features in this Build
Change Description
Some INF names are changed
Vulkan INF is removed. Vulkan binaries moved to Base INF
Enable Pkg C10 in Hybrid Graphics Configuration with external display output driven by Intel® Graphics

KNOWN ISSUES:

Known Issues in Build 100.6471				
Reference No.	Description	Affected Component(s)	Affected OS(s)	Affected Project(s)
1407310683	TDR observed during 3D Mark11 Stress Test	D3D10+	Windows* 10-64 (RS4)	8th Gen Intel® Core™ processor family Whiskey Lake
1408238815	One out of 2 monitors connected via DP cable to USB Type C dock shows no display	Display Interfaces	Windows* 10-64 (RS5)	Whiskey Lake
1408402450	3DMark (IceStorm)'s score will be lower after S4 resume	Powercons	Windows* 10-64 (RS5)	Whiskey Lake
1806519641	Aerofly FS2 Flight Simulator game menu is black in Vulkan mode.	Vulkan	Windows* 10-64 (RS5)	7th Gen Intel® Core™ processor family
1407523412	No sound output from Local speaker during the open and close lid action performed when monitor connected via type-c to HDMI dongle	Audio Driver	Windows* 10-64 (RS4)	Whiskey Lake

ISSUES RESOLVED:

Issues Resolved in Build 100.6471				
Reference No.	Description	Affected Component(s)	Affected OS(s)	Affected Project(s)
Bug ID: 1406518058	MUP check failed due to the version mismatch between INF files and MUP content .xml mode	Installer	Windows* 10 (RS3)	8th Gen Intel® Core™ processor family
Root Cause/Resolution:				

Version updated to match new requirement for Legacy Drivers				
Bug ID: 1407347403	High power consumption seen on LSPCon when modern standby is enabled	Display Interfaces	Windows* 10-64 (RS4)	Whiskey Lake
Root Cause/Resolution: LSPCON power mode optimization done for HDMI connectivity test cases				
Bug ID: 1407380610	High power consumption seen on LSPCon when modern standby is enabled	Display Interfaces GFXUI	Windows* 10-64 (RS4)	Whiskey Lake
Root Cause/Resolution: LSPCON power mode optimization done for HDMI connectivity test cases				
Bug ID: 1407929880	Video profile settings in CUI does not take affect after warm boot/ cold boot	GFXUI	Windows* 10-64 (RS5)	Whiskey Lake
Root Cause/Resolution: Check registry interface file added to persist the values in registry during restart scenario				
Bug ID: 1407951049	BSOD 0x7F seen when video mode is switched from external only to Extend with Internet Explorer launched and Miracast connected.	GMM	Windows* 10-64 (RS5)	Gemini Lake
Root Cause/Resolution: Design changes done to make use of less stack size in Gmmlib.				
Bug ID: 1408267026	Windows Control Panel automatically exit when launched on BRZ language OS	GFXUI	Windows* 10-64 (RS3) Windows* 10-64 (RS5)	9th Gen Intel® Core™ processor family
Root Cause/Resolution: String value changes done earlier have been reverted, to eliminate the issue observed.				
Bug ID: 1408302459	While adjusting the brightness control, the brightness variance observed visually is not smooth.	Driver Display - OS Features	Windows* 10-64 (RS5)	Whiskey Lake
Root Cause/Resolution: Optimization done in the graphics code, so that the pixel boost and OS gamma value can function smoothly while varying the adjustment desired by the user.				
Bug ID: 1806432374	[PC Games] Flickering observed while playing Battlefield V game.	D3D10+ IGC	Windows* 10-64 (RS4)	6th Gen Intel® Core™ processor family 7th Gen Intel® Core™ processor family
Root Cause/Resolution: [PC Games] Particular shader kernel was missing from memory barrier which caused random output corruptions, same has been resolved by forcing the thread warp size to 32 for synchronization purposes.				

Bug ID: 2206085893	Error MSG is seen when Intel Graphics Control Panel is launched on Windows * 10S	GFXUI Vulkan	Windows* 10-64 (RS5)	Whiskey Lake
Root Cause/Resolution: Removed the Vulkan version details from CUI, which caused the pop up of error message.				
Bug ID: 1408228576	System hangs after resume from S4 on collage mode	Driver Display - OS Features	Windows* 10-64 (RS4)	Whiskey Lake
Root Cause/Resolution: Graphics driver was unnecessarily disabling the hardware that had already been disabled during the screen turnoff event, causing extra CPU cycle consumption, so the system was crashing while writing into Transcoder register. Graphics code changes done to				
Bug ID: 1606175233	Custom Hot keys are not working with DCH driver.	Display Interfaces GFXUI	Windows* 10-64 (RS5)	Gemini Lake
Root Cause/Resolution: Access specific changes are added to allow customization specific changes get stored and retrieved.				
Bug ID: 1806299333	[PC Games] Lag observed while playing Just Cause 4 game.	D3D10+	Windows* 10-64 (RS4)	6th Gen Intel® Core™ processor family
Root Cause/Resolution: [PC Games] Optimization done in graphics code to synchronize the RS and CS value during game play to stabilize the view for user.				
Issues Resolved in Build 100.6444				
Reference No.	Description	Affected Component(s)	Affected OS(s)	Affected Project(s)
Bug ID: 1407735795	FurMark application freezes for few minutes when system resumes from S3 or S4.	OpenGL	Windows* 10-64 (RS5)	Whiskey Lake
Root Cause/Resolution: Due to high memory consumption during restoration of S3 and S4 states, the GPU was unable to execute buffers fast enough, which caused lag. Code changes are done to resolve the same.				
Bug ID: 1506847085	TDR occurs on playing UHD-BD with AVC to HEVC format change	Driver Media	Windows* 10-64 (RS4)	7th Gen Intel® Core™ processor family
Root Cause/Resolution: Kernel restore is initiated between submit command buffer and command buffer start to execute.				
Bug ID: 14072663679	With 2 monitors in daisy chain, primary monitor seems to have reduced color depth.	Display Interface	Windows* 10-64 (RS4)	6th Gen Intel® Core™ processor family 7th Gen Intel® Core™ processor family 8th Gen Intel® Core™ processor family
Root Cause/Resolution: Retrieve EDID during initialize to return the correct data for each panel.				
Bug ID: 1407844939	Color enhancement changes applied in CUI are not retained after resume from MS/S4.	GFXUI	Windows* 10-64 (RS4)	Whiskey Lake

Root Cause/Resolution: Read the stored value instead of the default value for persisting color element selection				
Bug ID: 1407951049	BSOD 0x7F seen when video mode is switched from external only to Extend with Internet Explorer launched, and Miracast connected.	GMM	Windows* 10-64 (RS5)	Gemini Lake
Root Cause/Resolution: Design changes done to make use of less stack size in Gmmlib.				
Bug ID: 1408266899	Vulkan binaries not completely declarative on Intel driver caused WHQL logo test failure on hybrid systems	Vulkan	Windows* 10-64 (RS5)	8th Gen Intel® Core™ processor family
Root Cause/Resolution: Vulkan binaries moved to base INF resolves the issue				
Bug ID: 1606660914	Dynamically saved profiles are not updating within Options and Support page in CUI.	GFXUI, CUI	Windows* 10-64 (RS5)	Gemini Lake
Root Cause/Resolution: As profiles page is moved under options and support page in CUI, a new logic is implemented to open profiles from options and support instead of launching profiles main page				
Issues Resolved in Build 100.6374				
Reference No.	Description	Affected Component(s)	Affected OS(s)	Affected Project(s)
Bug ID: 1407266894	Game 'Planet Explorers' crashes when launching World.	OpenCL	Windows* 10 (RS4)	7th Gen Intel(R) Core(TM) processor family
Root Cause/Resolution: Code changes done to OpenCL to fix the crash.				
Bug ID: 1606647135	Unable to change picture size of Wireless Display in CUI Page.	Gfxui	Windows* 10 (RS4) Windows* 10 (RS5)	Platform Independent
Root Cause/Resolution: Code changes done to read and write the Miracast values into the registry to persist.				
Bug ID: 1305912636	Mothergunship application crashes while loading.	IGC	Windows* 10 (RS4)	6th Gen Intel(R) Core(TM) processor family 7th Gen Intel(R) Core(TM) processor family
Root Cause/Resolution: Code changes done to fix the crash.				
Bug ID: 1407220746	Screen identifier number icon does not fit screen once DPI is set to 125% or more.	CUI	Windows* 10 (RS4)	8th Gen Intel(R) Core(TM) processor family
Root Cause/Resolution: Code changes done where monitor's physical and virtual positions are calculated independent of DPI.				
Bug ID: 1806323323	Few distant models render as black squares in some games like Otherland.	D3D10+	Windows* 10 (RS4)	6th Gen Intel(R) Core(TM) processor family 7th Gen Intel(R) Core(TM) processor family

Root Cause/Resolution: Code changes done to DirectX 11 to fix the problem.				
Issues Resolved in Build 100.6325				
Reference No.	Description	Affected Component(s)	Affected OS(s)	Affected Project(s)
Bug ID: 1606173006	VM session goes blank while running Unigine Heaven Benchmark	D3D10+	Windows* 10 (RS5)	8th Gen Intel(R) Core(TM) processor family
Root Cause/Resolution: Code changes done to fix blank screen issue when running DX9/10/11 apps in VM				
Bug ID: 2203082342	Bug check observed during Netflix UWP app playback on lock/unlock while casting over Miracast or Xbox or external monitor	Driver Media	Windows* 10 (RS3) Windows* 10 (RS5)	6th Gen Intel(R) Core(TM) processor family 7th Gen Intel(R) Core(TM) processor family 8th Gen Intel(R) Core(TM) processor family Gemini Lake
Root Cause/Resolution: Code changes done in temporary system module to avoid the bug check.				
Bug ID: 1407878792	Windows Hello is unable to scan for facial recognition	Unassigned	Windows* 10 (RS5)	8th Gen Intel(R) Core(TM) processor family
Root Cause/Resolution: Code changes done to add the missing events in Media SDK				
Bug ID: 1605317525	Optimize and Restore options are not working in CUI Game page	GFXUI	Windows* 10 (RS4) Windows* 10 (RS5)	7th Gen Intel(R) Core(TM) processor family
Root Cause/Resolution: Fixed with CUI Appx 2.1.0.0; Separated the common binaries between CUI HSA app and CUI Legacy app to fix the problem.				
Bug ID: 1605542141	CUI does not reflect correct values of window position post mode set when secondary monitor is moved to left- top/bottom corner of primary display	GFXUI	Windows* 10 (RS4) Windows* 10 (RS5)	7th Gen Intel(R) Core(TM) processor family
Root Cause/Resolution: Optimization done in code to verify the position logic is changed to left, right, top, bottom and diagonal cases for secondary monitors.				
Bug ID: 2204841812	When the screen is idle with certain apps using GPU, additional CPU resources are consumed	Display Interfaces	Windows* 10 (RS3) Windows* 10 (RS5)	7th Gen Intel(R) Core(TM) processor family
Root Cause/Resolution: Code changes done to remove unnecessary disabling of the display HW that has been already disabled.				
Bug ID: 2205093251	Flickering observed during video playback using Edge browser with Hyper-V enabled	Driver Display - OS Features	Windows* 10 (RS4) Windows* 10 (RS5)	7th Gen Intel(R) Core(TM) processor family
Root Cause/Resolution:				

Fixed the display underrun seen during video playback using Edge browser with Hyper-V enabled.				
Bug ID: 1605323285	Display is not detected when hot plugging after disabling lock display config in CUI	Driver Display Interfaces	Windows* 10 (RS4) Windows* 10 (RS5)	7th Gen Intel(R) Core(TM) processor family
Root Cause/Resolution: Optimization done is state value to recheck the value change while the display lock is getting disabled				
Issues Resolved in Build 100.6310				
Reference No.	Description	Affected Component(s)	Affected OS(s)	Affected Project(s)
Bug ID: 1605512923	Hot key to launch CUI is not working with CUI Appx	Graphics Driver-gfxui	Windows* 10 (RS4) Windows* 10 (RS5)	8th Gen Intel(R) Core(TM) processor family
Root Cause/Resolution: Added hotkey support for CUI centennial app				
Bug ID: 1605513202	Remove Tray Icon enable/Disable options from options and support-> preference page of CUI Appx. - DCH driver	Graphics Driver-gfxui	Windows* 10 (RS4) Windows* 10 (RS5)	8th Gen Intel(R) Core(TM) processor family
Root Cause/Resolution: Added checks for CUI centennial app to not show the options in preferences page				
Bug ID: 1605396573	Corruption observed while playing Netflix video after resizing Edge browser	Driver Media cp	Windows* 10 (RS4) Windows* 10 (RS5)	8th Gen Intel(R) Core(TM) processor family
Root Cause/Resolution: Code changes done to fix Netflix corruption issue during resizing the Edge browser				
Issues Resolved in Build 100.6272				
Reference No.	Description	Affected Component(s)	Affected OS(s)	Affected Project(s)
Bug ID: N/A				
Root Cause/Resolution:				