

# Intel® Graphics

## Build# 5.5.1039

### Video BIOS Release Notes

**May 20, 2015**

**This Video BIOS release contains support for 4<sup>th</sup> Generation Intel® Core™ Processor Production Versions and 5<sup>th</sup> Generation Intel® Core Processor Production Versions**

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## Revision History

Date	Build Number	Description
May 20,2015	5.5.1039	PV for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
February 18, 2015	5.5.1038	PV for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
January 30, 2015	5.5.1037	PV for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
November 26, 2014	5.5.1036	PV for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
October 17, 2014	5.5.1035	PV for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
October 10, 2014	5.5.1034	PV for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
October 6, 2014	5.5.1033	PV for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
September 22, 2014	5.5.1032	PV for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
September 16, 2014	5.5.1031	PV for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
August 8,2014	5.5.1030	PV for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
July 25,2014	5.5.1029	PV for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
July 14,2014	5.5.1028	PV for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
June 20,2014	5.5.1027	PV for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms

Date	Build Number	Description
May 28,2014	5.5.1025	PV for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
May 23, 2014	5.5.1024	Beta for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
May 15, 2014	5.5.1023	Beta for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
May 12, 2014	5.5.1022	Beta for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
April 24, 2014	5.5.1021	Beta for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
April 4, 2014	5.5.1020	Beta for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
March 25,2014	5.5.1019	Beta for 5 <sup>th</sup> Generation Intel® Core™ Processor Platforms PV for 4 <sup>th</sup> Generation Intel® Core™ Processor Platforms
February 27,2014	5.5.1017	Beta
February 7,2014	5.5.1016	Alpha
January 24, 2014	5.5.1015	Alpha
December 27, 2013	5.5.1014	Alpha
December 14, 2013	5.5.1013	Alpha
November 15, 2013	5.5.1011	Alpha
November 8, 2013	5.5.1010	Pre-Alpha
October 18, 2013	5.5.1008	Pre-Alpha
September 27, 2013	5.5.1007	Pre-Alpha
August 22, 2013	5.5.1006	Pre-Alpha

Video BIOS release contains support for the following Intel Chipsets/Processors:

- 5th Generation Intel® Core™ Processors (formerly Broadwell)
- 4th Generation Intel® Core™ Processors
- 4th Generation Intel® Core™ Processors based on Mobile U-Processor
- 4th Generation Intel® Core™ Processors based on Mobile Y-Processor

## Feature Changes

<b>Feature addition, removal or enhancements</b>		
<b>Reference No.</b>	<b>Description</b>	<b>Build</b>
<b>[DCN] 4139149</b> <b>[BUG] 5642338</b>	KVM: kvm session was closed after ~20 seconds.	5.5.1039
<b>[DCN] 4138872</b> <b>[BUG] 5619303</b>	Port the "Display corruption in Clone mode with eDP+HDMI and eDP+DP during Windows Driver Disable" from SKL.	5.5.1039
<b>[DCN] 4133320</b> <b>[BUG] 5641661</b>	VBIOS interrupt code corrupts EAX register	5.5.1038
<b>[DCN] 4132624</b> <b>[BUG] 5619303</b>	No DEV screen display on external 4K DP monitor and can't boot to ChromeOS	5.5.1037
<b>[DCN] 4131249</b> <b>[BUG] 5641290</b> <b>[BUG] 5618009</b>	BSOD 9F when boot to Win8.1-32bit OS.	5.5.1037
<b>[DCN] 4011798</b> <b>[BUG] 5557511</b>	Backlight off during post logo into windows.	5.5.1037
<b>[DCN] 3934821</b>	Correct the HDMI level shifter string (800mV 2.0dB) for HSW CPU	5.5.1036
<b>[DCN] 3930681</b> <b>[BUG] 5528443</b>	Does not support POST resolution of 2560x1080	5.5.1035
<b>[DCN] 3930413</b>	Updated few Vswing and Pre-emph Values for the DP and EDP	5.5.1034
<b>[DCN] 3929778</b> <b>[BUG] 5487660</b>	Output ports have blue screen	5.5.1033
<b>[DCN] 3929433</b>	Update the DDI buffer translation entry for DP to fix the compliance issue.	5.5.1032
<b>[DCN] [3929067]</b> <b>/[BUG] 5555060</b> <b>/5528418</b>	Display blank-out and system hang observed when disabling or un-installing the IGFX driver.	5.5.1031

Feature addition, removal or enhancements		
Reference No.	Description	Build
[DCN] [3924434] / [BUG] 5528681	Display blank out observed in eDP display	5.5.1030
[DCN] [3924226]	Correcting the delay for Idle pattern after Link training	5.5.1030
[DCN] [3924223]	Make T3 optimization to use HPD and T3 as software delay	5.5.1030
[DCN] [3923647]	New Customer Visible options in VBT in VBT are available for T14(PWM on -> backlight on) and T15 (backlight off -> PWM off).	5.5.1030
[DCN] [3923516]	Have a common VBT/GOP for both HSW and BDW without needing to select platform in BMP tool	5.5.1029
[DCN] [3922327] / [BUG] 5487294	The system will halt with black screen if IGD memory set to 1024 MB.	5.5.1028
[DCN] [3922183] / [BUG] 5444527	Garbage occurred when Set Mode during both legacy boot and DOS	5.5.1027
[DCN] [3921565] / [BUG] 5486512	Updated some changes in Display Port low Voltage Swing /Pre-Emphasis values for eDP displays only. Note: 5.5.1026 is not released to External customers.	5.5.1026
[DCN] [3920799]	Added support for BDW for Voltage Swing Level0 and Pre-Emphasis Level3	5.5.1025
[DCN] [3920760]	Change help text only for High/Low VswingPre Emphasis selection and some other corrections	5.5.1025
[DCN] [3919993]	Updated changes for Port DP/eDP link training	5.5.1023
[DCN] [3919908]	Code check for AUX divider WA and for number of read bytes received with AUX ACK	5.5.1023
[DCN] [3919654] / [BUG] [5294396]	Vertical Retrace bit is not set in VGA register on VESA Video modes.	5.5.1023
[DCN] [3919285]	Program Voltage Swing and Pre-Emphasis tables and it's corresponding buffer translation values for eDP and DP as per the Broadwell spec	5.5.1022
[DCN] [3919208]	When we change T8 value of panel power sequencing to 1300, system fails to boot in legacy mode	5.5.1022
[DCN] [3918809]	Hang is seen with some Display Port monitors using Legacy VBIOS in POST	5.5.1021
[DCN] [3918638]	Black Screen after uninstall Intel Graphics driver with DP-HDMI dongle on LT2013P monitor.	5.5.1021
[DCN] [3918201]	Display blank-out observed in EDID less CRT connected through DP--> VGA dongle on HDW DT-Refresh.	5.5.1021
[DCN][3917678]	Fall Back to 8 BPC for HDMI/DVI if panel color depth from EDID 1.4 returned is 6 or 10 BPC	5.5.1020
[DCN][3917581]	Change the Display Port SSC enable/disable logic	5.5.1020

Feature addition, removal or enhancements		
Reference No.	Description	Build
[DCN][3917578]	System not booting past POST with 4K monitor attached	5.5.1020
[DCN][3917569]	System doesn't boot with DVI Display	5.5.1020
[DCN][3917396]	Hang is seen with some displayport monitors using Legacy Vbios in DOS	5.5.1019
[DCN][3916764]	Spell mistake on help text of mode removal table in VBT.	5.5.1019
[DCN][3915336]	BIOS setup screen not coming when booted in clone mode.	5.5.1016
[DCN] [3914984]	POST not observed on DP1.2 display in 4th Generation Intel® Core™ Processor Family based on Mobile U-Processor Line-Refresh system	5.5.1015
[DCN] [3881183]	[Bug ID: 5223417]eDP Display Brightness not changing with the Dobios 5f61 command	5.5.1014
[DCN] [3880618]	DTD fallback mechanism made similar to GOP driver code	5.5.1013
[DCN] [3879981]	Fixed the detection sequence logic for the DP->VGA dongle	5.5.1013
[DCN][ 3879974]	Updates to programming the panel color depth for all displays using EDID	5.5.1013
[DCN] [3879822]	Ubuntu* and Fedora* – fix porting from 4th Generation Intel® Core™ Processor Platform VBIOS version 2179	5.5.1013
[DCN] [3879483]	Hide Windows* XP Related VBT Options in the BSF Script	5.5.1011
[DCN] [3879333]	Addition of the Device Id's for Broadwell for PCI 0 2 0 ( Intel Gfx Device ) device	5.5.1010
[DCN] [3879272]	VBIOS is using the incorrect bit mapping to retrieve the frame buffer size.	5.5.1010
[DCN] [3878871]	Increase LQA wait time 150ms to 200ms	5.5.1010
[DCN] [3878935]	VBIOS fails to detect for eDP panel to receive the HPD signal with glitch.	5.5.1010
[DCN] [3878661]	Post Signon messages need to be disabled by default.	5.5.1010
[DCN] [3878378]	Vbios fast link training, Cd clock correction logic and BSF bug fix related to T3 optimization	5.5.1008
[DCN] [3878360]	Ported the eDP power sequence changes from 4th Generation Intel® Core™ Processor Platform VBIOS to BDW VBIOS	5.5.1008
[DCN] [3878366]	Porting from 4th Generation Intel® Core™ Processor Platform VBIOS: eDP backlight control does not work correctly	5.5.1008
[DCN] [3875251]	Porting from 4th Generation Intel® Core™ Processor Platform VBIOS to BDW VBIOS: Assertive display technology enabled in VBT under Power Conservation features list for Windows driver configuration.	5.5.1008
[DCN] [3875255]	Bug Fix porting from 4th Generation Intel® Core™ Processor Platform - VBIOS will caused the black screen on CPT (panel vendor) sometimes.	5.5.1008
[DCN][3874413]	Support for CD clock , PCH raw clock and PCH stepping identification based on device ID's added	5.5.1007
[DCN][3874803]	LPT device id identification added in the BDW Vbios	5.5.1007
[DCN][3873885]	HDMI Level shifter list selection support (4th Generation Intel® Core™ Processor Platform or BDW) in VBT based on chipset selection	5.5.1006
[DCN][3873835]	Port DMRRS enabling feature from 4th Generation Intel® Core™ Processor Platform to BDW	5.5.1006

# Known Issues

Known issues in Build 1039(Current Release)		
Reference No.	Description	Affected OS(s)