

Intel[®] Embedded Graphics Drivers, EFI Video Driver, and Video BIOS

Specification Update

February 2011

Notice: The Intel[®] Embedded Graphics Drivers may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.



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The products described in this document may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

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Revision History

Date	Revision	Description
February 2011	033	Specification update for the 10.4 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.
July 2010	032	Specification update for the 10.3.3 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.
March 2010	031	Specification update for the 10.3.1 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.
February 2010	030	Specification update for the 10.3 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.
December 2009	029	Specification update for the 10.3 Preliminary release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.
October 2009	028	Specification update for the 10.2 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.
September 2009	027	PRELIMINARY specification update for the 10.2 Preliminary release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.
July 2009	026	Specification update for the 10.1 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.
June 2009	025	Specification update for the 10.1 Preliminary release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.
May 2009	024	Specification update for the 10.0.2 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.
March 2009	023	Specification update for the 10.0 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS. A section containing the list of resolved issues was added to this document.
February 2009	022	Specification update for the Preliminary 10.0 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.
February 2009	021	Specification update for the 9.1.1 release of the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS, with added information for #200385.
December 2008	020	Specification update for the 9.1.1 release of the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS.
December 2008	019	PRELIMINARY specification update for the 9.1.1 Beta 3 release of the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS.
November 2008	018	PRELIMINARY specification update for the 9.1.1 Beta 2 release of the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS.
November 2008	017	PRELIMINARY specification update for the 9.1.1 release of the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS.
November 2008	016	Specification update for the 9.1 release of the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS.
October 2008	015	PRELIMINARY specification update for the 9.1 Beta 2 release of the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS.



Date	Revision	Description
September 2008	014	PRELIMINARY specification update for the 9.1 release of the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS.
August 2008	013	Specification update for the 9.0.2 release of the Intel® Embedded Graphics Drivers and Video BIOS.
July 2008	012	Specification update for the 9.0 release of the Intel® Embedded Graphics Drivers and Video BIOS.
June 2008	011	Specification update for the 9.0 release of the Intel® Embedded Graphics Drivers and Video BIOS.
May 2008	010	PRELIMINARY specification update for the 9.0 Release of the Intel® Embedded Graphics Drivers and Video BIOS.
October 2007	009	Specification update for 8.0 release of the Intel® Embedded Graphics Drivers and Video BIOS.
August 2007	008	PRELIMINARY specification update for the 8.0 Release of the Intel® Embedded Graphics Drivers and Video BIOS.
June 2007	007	Specification update for 7.0 release of the Intel® Embedded Graphics Drivers and Video BIOS.
April 2007	006	PRELIMINARY specification update for the 7.0 Release of the Intel® Embedded Graphics Drivers and Video BIOS. This specification update was formerly titled <i>Intel® Embedded Graphics Drivers and Video BIOS Errata</i> .
December 2006	005	Errata updated for the 6.1 Release of the Intel® Embedded Graphics Drivers and Video BIOS. Change bars indicate areas of change.
September 2006	004	Errata updated for the 6.0 Release of the Intel® Embedded Graphics Drivers and Video BIOS.
June 2006	003	Errata updated for the 5.1 Release of the Intel® Embedded Graphics Drivers and Video BIOS.
February 2006	002	Errata updated for the 5.0 Release of the Intel® Embedded Graphics Drivers and Video BIOS.
October 2005	001	Errata updated for the 4.1 Release of the Intel® Embedded Graphics Drivers and Video BIOS.



Introduction

The Intel® Embedded Graphics Drivers (IEGD) comprise a suite of multi-platform graphics drivers designed to meet the requirements of embedded applications. Featuring Intel® Dynamic Display Configuration Technology (DDCT), the drivers run on the following Embedded Intel® Architecture (eIA) chipsets:

- Intel® Atom™ Processor 400 and 500 Series
- Intel® System Controller Hub US15W/US15WP/WPT chipset

The IEGD supports five types of display devices:

- Analog CRT/VGA Monitors
- LVDS flat panels
- TMDS DVI displays
- TMDS HDMI displays
- Standard-Definition (NTSC / PAL) & High-Definition (Y/PB/PR) TV Output

The IEGD is designed to work with fixed-function systems, such as Point-of-Sale (POS) devices, ATMs, gaming devices, etc. It can be configured to work with various hardware and software systems and supports both Microsoft Windows* and Linux* operating systems, including embedded versions of these operating systems.

The Intel Embedded Graphics Suite consists of both IEGD and a Video BIOS (VBIOS) component. These two components are configurable and work together to provide a wide range of features.

The IEGD provides the following features:

- Enhanced VBIOS and EFI support
- Dynamic Port Drivers
- Support for Dual Independent Head (DIH) displays
- Support of a Universal INF file
- EDID and EDID-less display support
- Display discovery and initialization
- Direct 3D* support
- Installer/Uninstaller GUI for Microsoft Windows
- Runtime configuration GUI for Microsoft Windows and Linux
- OpenGL supported in Linux



Purpose / Scope / Audience

This document is a compilation of Errata. It is intended for those who need to interface with the graphics subsystem. This includes, but is not limited to: platform designers, system BIOS developers, system integrators, original equipment manufacturers (OEMs), system control application developers, as well as end users.

This document may also contain information that was not previously published.

This document provides information on open errata in all supported IEGD packages for version 10.4 of the IEGD product. It includes information on the following packages:

- Linux
- Windows Embedded Standard 2009, Windows XP ver. SP3, Windows XP Professional ver. SP3, Windows XP Embedded* ver. SP3, WEPOS ver. SP3:
 - DirectX* 8.1 (DirectDraw* and Direct3D*)
 - DirectX 9 (DirectDraw and Direct3D)
- Microsoft Windows CE 6.0 R2
- VBIOS

Table 1. Affected Documents, Related Documents, and Reference Information (Sheet 1 of 2)

Title	Number
<i>Intel® Embedded Graphics Drivers for Embedded Intel® Architecture-based Chipsets Product Brief</i>	315587
<i>Intel® Embedded Graphics Drivers and Video BIOS User's Guide</i>	274041
<i>Intel® I/O Controller Hub 9 (ICH9) Family Datasheet</i>	316972
<i>Mobile Intel® 4 Series Express Chipset Family</i>	320122
<i>Intel® Atom™ Processor Z5xx⁴ Series Datasheet</i>	319535
<i>Intel® System Controller Hub (Intel® SCH)</i>	319537
<i>Intel® 3 Series Express Chipset Family Datasheet</i>	316966
<i>Intel® I/O Controller Hub 10 (ICH10) Family Datasheet</i>	319973
<i>Mobile Intel® 965 Express Chipset Family Datasheet</i>	316273
<i>Intel® 965 Express Chipset Family Datasheet</i>	313053
<i>Mobile Intel® 945GM/PM/GMS Express Chipset Datasheet</i>	309219
<i>Mobile Intel® 915PM/GM/GMS and 910GML Express Chipset Datasheet</i>	305264
<i>Intel® 915G/915GV/915P Express Chipset Datasheet</i>	304467
<i>Intel® I/O Controller Hub 6 (ICH6) Family Datasheet</i>	301473

**Table 1. Affected Documents, Related Documents, and Reference Information (Sheet 2 of 2)**

Title	Number
<i>Display Panel Debugging with the Intel Graphics Memory Controller Hub</i>	305964
VESA BIOS Extensions/Display Data Channel Standard, available at the following website: http://www.vesa.org/public/VBE/VBEDDC11.PDF This document provides information on the 4F VBE functions, which are supported by the Intel embedded Video BIOS.	N/A
VESA BIOS Extension (VBE) Core Functions Standard Version 3.0, available at the following website: http://www.vesa.org/public/VBE/vbe3.pdf Contains information on the VESA BIOS Extension (VBE) specification for standard software access to graphics display controllers that support resolutions, color depths, and frame buffer organizations beyond the VGA hardware standard.	N/A

Conventions and Terminology

Table 2. Conventions and Terminology

Term	Definition
Errata (plural) Erratum (singular)	Errata are design defects or errors. These may cause the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS' behavior to deviate from published specifications. Hardware and software designed to be used with any given release must assume that all errata documented for that release are present on all devices.



Summary Tables of Current Product Issue Activity

Table 4 shows the [Errata](#) that apply to the IEGD product. Intel may fix some of the [Errata](#) in a future release of the software as noted in [Table 3](#). [Table 4](#) uses the codes listed in [Table 3](#).

Table 3. Summary Tables Legend

Status Indicator	Column	Definition
X	Driver Version	Indicates that an erratum eXists
Plan Fix	Status	This erratum may be fixed in a future release.
Fixed	Status	This erratum has been previously fixed.
No Fix	Status	There are no plans to fix this erratum.
A change bar to the left of a table row indicates an item that is either new or modified from the previous version of this Specification Update.		

Table 4. Errata (Sheet 1 of 7)

ID	Driver Version	Package	Errata	Status	Page
	10.4				
200156	X	WEPOS, Windows XP	Pixel corruption on XP when the video is partially clipped in extended direction in 8-bit mode.	No Fix (OS/API issue)	16
200312	X	VBIOS	Display flashes when booting up IEGD on Intel® System Controller Hub US15W on VBIOS.	No Fix (Not a defect)	16
200314	X	Windows XP	Microsoft Verifier incorrectly identifies errors in the IEGD drivers. A blue screen is displayed when running Direct3D with power management in clone mode.	No Fix (Third-party defect)	16
200369	X	Linux	Overlay flickers on primary video display on D1 step and earlier US15W.	No Fix (Hardware defect)	17
200462	X	Windows CE	System slow when remotely accessing a GIF file on 910GML and Windows CE.	No Fix (OS/API issue)	17
200531	X	Linux	Direct Rendering 3D not working when run on Ubuntu 8.0.4, Fedora 7 kernel 2.6.24.4 on 945GME.	Plan Fix	17
200555	X	VBIOS	IEGD VBIOS terminate and stay resident (TSR) program hangs and freezes the system on Q45.	No Fix (Third-party defect)	18
200617	X	Windows XP	MPEG-2 video is blank when running on DVI using software decode on Windows Media Player*.	No Fix (OS/API issue)	18



Table 4. Errata (Sheet 2 of 7)

ID	Driver Version	Package	Errata	Status	Page
	10.4				
200618	X	Windows XP	MPEG-2 video may be blank when running on DVI in extended mode using hardware decode in Windows Media Player* 11.	No Fix (Third-party defect)	18
200624	X	Windows XP	VC-1 Video cannot be played on LVDS in extended mode using Windows Media Player* and software decode.	No Fix (Third-party defect)	18
200641	X	Windows XP	Changing display resolutions while playing video in Windows* Media Player causes video hang/blank and system hang.	No Fix (Third-party defect)	19
200645	X	Windows Vista	ACPI S3/S4 can fail in some cases in Vista* with IEGD.	No Fix (Third-party defect)	19
200672	X	Windows XP	Windows Media Player* 10 may cause failure to play MPEG2, H.264, and VC-1 video in PowerDVD8 player.	No Fix (Third-party defect)	19
200679	X	Windows XP	Running video using full video acceleration in rotation causes video hang and blank when flipping horizontally.	No Fix (Third-party defect)	20
200681	X	Linux, Windows XP	Display ID data (EDID) may be interpreted incorrectly on Q45 when CH7307 is used.	No Fix (Hardware defect)	20
200707	X	Windows Vista	Screen rotation in Microsoft Vista* may cause distortion if Side Bar / Gadgets are used.	No Fix (OS/API issue)	20
200770	X	Linux	Tearing seen when playing movie with XVBlend on Intel® System Controller Hub US15W.	No Fix (Hardware limitation)	20
200806	X	Linux	xegl demo es1_msaa failed to run on X server 1.3.	No Fix (OS/API issue)	21
200819	X	Windows Vista	Icons appear in wrong bit depth on secondary display if primary display is lower BPP.	No Fix (OS/AI issue)	21
200820	X	Linux	3DMarkMobile ES 2.0 is not rendering correctly and will segfault on US15W.	No Fix (OS/API issue)	21
200824	X	Windows Vista	Running 3D application on Microsoft Vista* may cause the side bar on desktop to flicker.	No Fix (OS/API issue)	21
200832	X	Windows XP	PDVD8 screen blank playing H.264 and VC-1 video with rotated display.	No Fix (Third-party defect)	22
200850	X	Windows XP	PDVD8 exits when playing H.264 video with the display flipped.	No Fix (Third-party defect)	22
200876	X	Windows XP	Translucent Display Properties box on the LVDS port may flash when moved.	No Fix (OS/API issue)	22
200901	X	Windows Vista	Rotation and flipping after running video may cause display corruption and system hang on an Intel® System Controller Hub US15W running Microsoft Vista*.	No Fix (OS/API issue)	23
200942	X	Linux	Google Earth* may have visual corruption on US15W.	Plan Fix	23



Table 4. Errata (Sheet 3 of 7)

ID	Driver Version	Package	Errata	Status	Page
	10.4				
200946	X	Windows XP	MPEG2 video fails to run on PDVD8 in LVDS (extend) and DVI using software decode.	No Fix (OS/API issue)	23
200947	X	Windows XP	Resizing MPEG2 video in PDVD8 using hardware video decode in LVDS (extend) and DVI causes the player to exit.	No Fix (OS/API issue)	23
200948	X	Windows XP	Overlay is not working when playing video in PDVD8 spanning two displays in extended mode.	No Fix (Third-party defect)	24
200954	X	Windows XP	H.264 video fails to run on PDVD8 in LVDS (extend) and DVI using hardware decode.	No Fix (OS/API issue)	24
200974	X	VBIOS, Windows XP	ATI PCIe card may fail to work with IEGD VBIOS on an Intel® System Controller Hub US15W.	No Fix (Third-party defect)	24
200981	X	WEPOS, Windows eXP, Windows XP	Pixel Shaders version 2.0 on US15W may cause test failures.	No Fix (OS/API issue)	24
200989	X	VBIOS	GHOST.exe fails on US15W with Machine Check Error.	No Fix (Application defect)	25
201008	X	WEPOS, Windows Vista, Windows XP	ACPI S3/S4 fails to work with screen saver on US15W.	No Fix (OS/API issue)	25
201041	X	Linux	3DMarkMobile ES 1.1 not rendering correctly on US15W.	No Fix (Third-party defect)	25
201046	X	Windows Vista	Microsoft Vista fails to boot or install fully on 915GV and 945G using IEGD VBIOS.	No Fix (Third-party defect)	26
201056	X	Linux	Rendered scaling - corrupted line on video/window when window is on top of video.	No Fix (Hardware limitation)	26
201071	X	Windows XP	After resuming from S4 the background is not drawn correctly.	No Fix (OS issue)	26
201163	X	Windows CE	CE Player cannot play MPEG1 on all platforms.	No Fix (Third-party defect)	27
201168	X	Linux	Some videos may hang when running on Ubuntu and US15W.	No Fix (Third-party defect)	27
201200	X	Linux	Video corruption and green lines issue on Rendered Scaling.	No Fix (Third-party defect)	27
201235	X	Windows XP Embedded	Fields on GUI screens may not be visible on Windows XP Embedded.	No Fix (OS/API Issue)	27
201236	X	Linux	Secondary overlay causes a grey box in DIH and panned Clone configuration on Q45 and GM45.	No Fix (Hardware limitation)	28



Table 4. Errata (Sheet 4 of 7)

ID	Driver Version	Package	Errata	Status	Page
	10.4				
201270	X	Linux	Overlay corrupted green box in clone configuration persists even when switching to single mode on Q45 and GM45.	No Fix (Hardware defect)	28
201297	X	WEPOS, Windows XP, Windows eXP	Playing video with audio enabled on US15W may trigger CyberLink PowerDVD 8.0 player to use software decode.	No Fix (Third-party defect)	29
201304	X	Windows XP	Partial clipping on primary display becomes black and flickers on GM45 and Q45 chipsets.	No Fix	29
201307	X	Linux	System unable to wake up from STANDBY S1/S3 state on 915GV/GM965 using Fedora 7 or Fedora 10.	No Fix (OS/API issue)	29
201331	X	Windows XP	Video playback of advanced profile interlaced VC-1 clips displays corruption due to Microsoft codec reporting incorrect inter-frame CBP on US15W/WP.	No Fix (Third-party defect)	30
201358	X	Windows XP	Java application corruption at 90°, 180°, and 270° rotation in either Single Twin or Clone Display Mode.	No Fix (Third-party defect)No Fix (Third-party defect)	30
201360	X	Linux	When video is closed midway and then restarted, it exhibits tearing on US15W.	No Fix (Third-party defect)	30
201365	X	Windows CE	Screen flickering occurs when executing the donuts.exe 3D application on US15W running Windows CE 6.0.	No Fix (Third-party defect)	30
201369	X	Windows XP	US15W will not boot with CH7308 ADD2 card.	No Fix (Third-party defect)	31
201370	X	Windows XP	Rectangle draw speed drops after running DirectDraw* on US15W chipsets.	No Fix	31
201383	X	Linux	VC-1 video clips with multiple sequence headers may halt the system on US15W running Linux.	No Fix (Third-party defect)	31
201384	X	Linux	Using UMC Player, pixel corruption occurs within first 1 to 5 seconds for VC-1 720p and 1080p HD video playback on US15W running Linux.	No Fix (Third-party defect)	32
201415	X	Windows CE	Video playback lags when two video files are playing under Windows CE simultaneously in Clone and Vertical Extended configurations using G45, 945GV, GM45, 915GV, Q35, Q965, and 945GM.	No Fix (OS issue)	32
201419	X	Windows XP	H.264+PDVD8 across two screens in extended mode with partial clipping causes system lag on US15W running Windows XP.	No Fix (Third-party defect)	32
201430	X	Linux, Moblin	Minor jerk during playback of H.264 video in Linux VA.	No Fix (Third-party defect)	32
201431	X	Linux	Unable to play progressive segmented frame VC-1 videos on US15W running Linux.	No Fix (Third-party defect)	33



Table 4. Errata (Sheet 5 of 7)

ID	Driver Version	Package	Errata	Status	Page
	10.4				
201449	X	Linux	All the icons on GNOME desktop may disappear after startx in 16-bit mode test.	No Fix (Third-party defect)	33
201465	X	Windows XP	Slow performance in applications when in rotated mode on US15W.	Plan Fix	33
201478	X	Windows CE	Screen flickering occurs while launching the 3D program called "ddex4.exe" on Windows CE.	No Fix (Third-party defect)	33
201479	X	Linux	Running Xtest under Fedora 10 causes two modules named "acpid" and "rsyslogd" to hang after Xtest completes on Gen3 and Gen4 chipset-based platforms.	No Fix (Third-party defect)	34
201483	X	Windows CE	Screen flicker while pausing and then resuming play during the H.264 movie playback.	No Fix (Hardware limitation)	34
201497	X	Windows CE	US15W performance slow when flip is enabled.	No Fix (Hardware limitation)	34
201499	X	Windows CE	Stretch blit performance is low with Windows CE compared to XP on US15W.	No Fix (OS/API issue)	34
201508	X	Windows XP	On Windows XP, 3DMark06 batch size tests present black screen on Intel® System Controller Hub US15W.	No Fix (OS/API issue)	35
201513	X	Linux, vBIOS, Windows CE	Unable to turn on TV out via CH7022 SDTV/HDTV Encoder on GM965.	No Fix (Hardware defect)	35
201530	X	Windows XP Embedded	The fonts for the prompt menu for IEGD installation/uninstallation are invisible on US15W running Windows XP.	No Fix (OS/API issue)	35
201535	X	Windows Vista	DirectX 7/8 application freeze after wake up from ACPI S1, S3 and S4.	No Fix (Application defect)	35
201536	X	Linux	In Linux GNOME the title bar is corrupted when an application window size is oversized and then set to screen size in partial clipping test.	No Fix (Third-party defect)	36
201544	X	Windows CE	IRQ conflict with IEGD and ethernet device with Windows CE on Intel® System Controller Hub US15W.	No Fix (Not a defect)	36
201547	X	CED	CED prevents user from selecting display ports that results in the vga.bin generated being larger than 64k.	No Fix	36
201589	X	Windows CE	Both 3DMarkMobile ES 2.0/1.1 not rendering properly on US15W and causes segfault.	No Fix (OS/API issue)	37
201598	X	Linux	Screen corruption occurs in 1280x1024 resolution using Linux Fedora 10 on Q35.	Plan Fix	37
201606	X	Windows CE	Corruption found when running CEPlayer and playing WMV file on Windows CE 6 with April 2009 patch.	No Fix (Third-party defect)	37
201609	X	Moblin	Clutter "test-fbo" application fails to create an off-screen Frame Buffer Object (FBO) under Moblin.	No Fix (Third-party defect)	38



Table 4. Errata (Sheet 6 of 7)

ID	Driver Version	Package	Errata	Status	Page
	10.4				
201618	X	Windows eXP	MPEG2 and H.264 Video Clips played back using PowerDVD8 cause blanked screen using Windows XP Embedded.	Resolved with new version of CyberLink PowerDVD8 application and update file.	38
201634	X	Windows XP	Windows Presentation Foundation (WPF) 3.5 (.net 3.5 SP1) application runs slower under Windows XP on US15W and with D3D acceleration on.	Third party defect/Resolved	39
201652	X	Linux	Render Scaling/Centering fails when changing display modes via the (Ctrl + Alt + +) keystroke under Fedora 7.	Plan Fix	39
201667	X	Windows CE	OpenGL ES test application with alpha blending hangs for several seconds and resumes again using IEGD 10.1.	No Fix (OS/API Issue)	39
201673	X	Moblin	US15W system hangs when running Moblin with Tegriss game above 640x480 resolution.	No Fix (Third-party defect)	40
201805	X	Windows XP	3DMarkMobile ES 2.0 missing extension "wglSwapIntervalEXT" under Windows XP on US15W.	No Fix	40
201834	X	Windows XP	On Windows XP - Java RIA demo application (Snowman) intermittently hangs or crashes on Intel® System Controller Hub US15W.	Plan Fix	40
201861	X	Windows XP	Not able to install IEGD driver after PCI driver for PCI-E graphics card installed on Intel Atom™ Processor 400 and 500 Series-based platform.	No Fix (Third-party defect)	40
201891	X	Windows Vista	ACPI will not wake up from S1 and S3 Modes on Intel Atom 400 and 500 series with GMA 3150 Graphics Media Accelerator.	No Fix (Third-party defect)	41
202063	X	Moblin	VA allocation failing: vaCreateSurfaces when customer runs their test application for 1 hour on US15W.	No Fix (User error)	41
202075	X	Moblin	Customer's MPlayer/VAAPI custom test crashes after 5 minutes on Intel® System Controller Hub US15W.	No Fix (User error)	41
202096	X	Moblin	Overlay test application failing with VAAPI Video Acceleration on Intel® System Controller Hub US15W.	Plan Fix	41
202180	X	VBIOS	System hangs within the video BIOS with CH7317 on Linux.	No Fix (Third-party defect)	42
202230	X	Moblin, Ubuntu	Customer's H.264 decoder not working with 10.3 but does work with 10.2.	No Fix (Third-party defect)	42
202292	X	Windows CE	Windows CE 3D test SpaceDonuts has distorted output.	No Fix (Third-party defect)	42
202795	X	Ubuntu	H.264 HD video shows block artifacts decoding with VAAPI hardware acceleration.	No Fix (Third-party defect)	42



Table 4. Errata (Sheet 7 of 7)

ID	Driver Version	Package	Errata	Status	Page
	10.4				
202921	X	Ubuntu	X server (using Xorg 1.4) crashes after long term MPlayer looping.	No Fix (Third-party defect)	43
202940	X	Fedora	Fedora failing or crashing when S3 is run multiple times on US15W.	TBD	43
2195903	X	Windows XP	The system may hang after turning on the IEGD as secondary display when primary video device is set to External PCI on Intel 915GV.	No Fix (Third-party defect)	43
2329044	X	Other	Backlight timed events are incorrectly timed (delayed) if the VBIOS I/O cycle is not 1ms.	No Fix (Third-party defect)	44
2441156	X	Windows CE	Incorrect resolution on DVI display when 640x480 resolution is set and in Clone and Twin configuration in Windows CE.	No Fix (Hardware defect)	44
2483055	X	Windows XP	Possible Display Corruption on National Semi 2501 when it is configured as secondary display on 640x 480 mode.	No Fix (Third-party defect)	44
2549997	X	Linux	Internal TV screen may black out or flicker after several rapid changes of the Standard Definition TV format.	No Fix (Hardware limitation)	44
2593149	X	Windows eXP	On Windows XPe, EGDGUI information not formatted properly in Display Properties Tab on Intel 945GME.	No Fix (Working as expected)	45



Errata

1. Pixel corruption on XP when the video is partially clipped in extended direction in 8-bit mode.

Reference #: 200156

Driver: Graphics

Version: 10.4

Package: WEPOS, Windows XP

Resolution: On XP, when the overlay is in 8-bit color desktop (primary and secondary) at the crossover on these two displays the operating system handles the overlay rendering. The color pixel in the overlay looks like those on the desktop (it's in the same color format). This phenomenon is also found on third-party graphics boards so this appears to be an OS issue that cannot be fixed in the driver.

Status: No Fix (OS/API issue)

2. Display flashes when booting up IEGD on Intel® System Controller Hub US15W on VBIOS.

Reference #: 200312

Driver: VBIOS

Version: 10.4

Package: VBIOS

Resolution: The VBIOS for US15W may not be correctly blanking the video during a mode set. The default values for T1- T5 may be too short to mask the normal disruptions on the display during the mode sets. The flashes are normal, should not cause any problems and may be ignored. Alternatively, if you specify T1 - T5 values appropriate for your LVDS panel then the backlight will turn off and mask the disruptions. IEGD is evaluating a change to the default handling for a future release.

Status: No Fix (Not a defect)

3. Microsoft Verifier incorrectly identifies errors in the IEGD drivers. A blue screen is displayed when running Direct3D with power management in clone mode.

Reference #: 200314

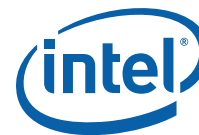
Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: Execute the following steps on the systems to correct the problem:
1) Type "verifier" at the DOS command prompt.
2) Select the option "delete existing settings".
3) Reboot the system.

Status: No Fix (Third-party defect)



4. **Overlay flickers on primary video display on D1 step and earlier US15W.**

Reference #: 200369

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: This specific issue occurs on an older silicon stepping (D1). If you are using D1 silicon the only option is using the blend function for video display instead of the overlay. Set it via the following configuration in `xorg.conf`:
Set XVideo option to "False"
Set XVideoBlend option to "True"

Status: No Fix (Hardware defect)

5. **System slow when remotely accessing a GIF file on 910GML and Windows CE.**

Reference #: 200462

Driver: Graphics

Version: 10.4

Package: Windows CE

Resolution: Symptoms included high CPU usage and sluggishness when accessing GIF files remotely. The Remote Desktop Application appears to cause this sluggishness, not the IEGD driver as the slow response is seen using the default Windows CE VGA driver as well. Please contact Microsoft for more details.

Status: No Fix (OS/API issue)

6. **Direct Rendering 3D not working when run on Ubuntu 8.0.4, Fedora 7 kernel 2.6.24.4 on 945GME.**

Reference #: 200531

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: Ubuntu 8.04 for Mid on US15W is currently the only officially supported Ubuntu version. Use of Ubuntu on other chipsets should work; however, it is not officially supported by Intel. The IEGD Kernel Module (IKM) is designed to recognize the specific kernel supported by the driver in Ubuntu for Mid. The IKM would need to be modified to recognize the kernel in the generally available Ubuntu, which it currently does not.

Fedora 7 using 2.6.24 also can be made to work with a slight "tweak" to the IKM scripts to include the proper header from the F7 kernel. Details are available upon request.

Status: Plan Fix

**7. IEGD VBIOS terminate and stay resident (TSR) program hangs and freezes the system on Q45.**

Reference #: 200555

Driver: Video BIOS

Version: 10.4

Package: VBIOS

Resolution: This issue is due to non-support for INT 15h 5F calls in the system BIOS. It can be bypassed by turning 5F functions OFF in the CED “vBIOS and EFI configuration” page. Turn all 5 functions OFF. The TSR will succeed.

Status: No Fix (Third-party defect)

8. MPEG-2 video is blank when running on DVI using software decode on Windows Media Player*.

Reference #: 200617

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: It appears that Microsoft Windows* Media Player 11 will NOT play back MPEG-2 content if DXVA acceleration is disabled. This appears to be a Microsoft code limitation. Please contact Microsoft for details. This cannot be fixed by the video driver.

Status: No Fix (OS/API issue)

9. MPEG-2 video may be blank when running on DVI in extended mode using hardware decode in Windows Media Player* 11.

Reference #: 200618

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: It appears that Windows Media Player 11 will NOT play back MPEG-2 content if DXVA acceleration is enabled and on DVI in extended mode. This appears to be a Microsoft code limitation. Please contact Microsoft for details. This cannot be fixed by the video driver.

Status: No Fix (Third-party defect)

10. VC-1 Video cannot be played on LVDS in extended mode using Windows Media Player* and software decode.

Reference #: 200624

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: It appears that Windows Media Player 10/11 will NOT play back VC-1 content to an LVDS display in extended mode. This appears to be a Microsoft code limitation. Please contact Microsoft for details. This cannot be fixed by the video driver.

Status: No Fix (Third-party defect)

**11. Changing display resolutions while playing video in Windows* Media Player causes video hang/blank and system hang.**

Reference #: 200641

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: In Windows Media Player, you should not change screen resolutions while playing a hardware accelerated video or corruption and/or hangs may occur. This appears to be a programming limitation in the Microsoft code. Please contact Microsoft for more details. This cannot be fixed by the video driver.

Status: No Fix (Third-party defect)

12. ACPI S3/S4 can fail in some cases in Vista* with IEGD.

Reference #: 200645

Driver: Graphics

Version: 10.4

Package: Windows Vista

Resolution: This appears to be a BIOS/firmware issue. Make sure you are using the latest embedded controller firmware, and check with your BIOS vendor if you see S4 failures. This cannot be resolved by the video BIOS or driver.

Status: No Fix (Third-party defect)

13. Windows Media Player* 10 may cause failure to play MPEG2, H.264, and VC-1 video in PowerDVD8 player.

Reference #: 200672

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: Install Windows Media Player 11 and PowerDVD will play again. This is unlikely to be an IEGD driver issue but may just be a software interaction issue between Windows Media Player* 10 and PowerDVD.

Step taken:

1) Reinstall PDVD.

2) Open PDVD8 and verify that you can play SD video, but you cannot play HD H.264 video.

3) Open Windows Media Player and close it. (If necessary, toggle DXVA option.)

4) Open PDVD8 and verify that you can play SD file, HD H.264 and HD VC-1 files.

NOTE: All files are played with software decode. Hardware decode is disabled when video is playing on PDVD8. (Verified by setting breaking with WinDbg.)

Status: No Fix (Third-party defect)

**14. Running video using full video acceleration in rotation causes video hang and blank when flipping horizontally.**

Reference #: 200679

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: Do not use rotation and flipping during video playback as the system is not able to operate reliably in this case.

Status: No Fix (Third-party defect)

15. Display ID data (EDID) may be interpreted incorrectly on Q45 when CH7307 is used.

Reference #: 200681

Driver: Graphics

Version: 10.4

Package: Linux, Windows XP

Resolution: This issue seems to occur only when a special EDID test fixture is used in validation testing. Monitors seem to read properly, however it is possible some monitors may experience this same issue. This appears to be entirely a hardware issue that cannot be corrected in the graphics driver.

Status: No Fix (Hardware defect)

16. Screen rotation in Microsoft Vista* may cause distortion if Side Bar / Gadgets are used.

Reference #: 200707

Driver: Graphics

Version: 10.4

Package: Windows Vista

Resolution: This is a Vista limitation for XPDM display drivers that cannot be resolved by the IEGD driver. Workaround: Do not use rotation if you use the Side Bar / Gadgets or turn them off if rotation is used. This will not be fixed.

Status: No Fix (OS/API issue)

17. Tearing seen when playing movie with XVBlend on Intel® System Controller Hub US15W.

Reference #: 200770

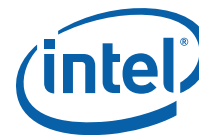
Driver: Graphics

Version: 10.4

Package: Linux

Resolution: A feature request has been entered for this issue. Any customer affected by this problem is advised to use XV (normal) which does not experience movie tearing. An alternate resolution is to use X11 which does not experience movie tearing if shadow framebuffering is utilized.

Status: No Fix (Hardware limitation)



18. **xegl demo es1_msaa failed to run on X server 1.3.**

Reference #: 200806

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: To run xegl demo es1_msaa user will need to use X server 1.5 as X server 1.3 does not support this.

Status: No Fix (OS/API issue)

19. **Icons appear in wrong bit depth on secondary display if primary display is lower BPP.**

Reference #: 200819

Driver: Graphics

Version: 10.4

Package: Windows Vista

Resolution: This is a normal behavior of Windows as the icons are copied from the primary display (at 16BPP) to the secondary display (at 32BPP) so the shared icons appear at a bit depth that mirrors the primary display. This issue will not be fixed. Contact Microsoft for any possible corrections.

Status: No Fix (OS/API issue)

20. **3DMarkMobile ES 2.0 is not rendering correctly and will segfault on US15W.**

Reference #: 200820

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: The version of 3DMarkMobile ES 2.0 supported by the current IEGD driver appears to be a release candidate and not an official release. In our investigations we have not been able to find any errors within the driver code. At this time we are attempting to verify on the latest release version. For the time being this appears to be a FutureMark defect. Please contact FutureMark for more details.

Status: No Fix (Third-party defect).

21. **Running 3D application on Microsoft Vista* may cause the side bar on desktop to flicker.**

Reference #: 200824

Driver: Graphics

Version: 10.4

Package: Windows Vista

Resolution: This is a Vista limitation for XPDM display drivers that cannot be resolved by the IEGD driver. Workaround: Do not use rotation if you use the Side Bar / Gadgets or turn them off if rotation is used. This will not be fixed. Please contact Microsoft for details.

Status: No Fix (OS/API issue)

**22. PDVD8 screen blank playing H.264 and VC-1 video with rotated display.**

Reference #: 200832

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: This seems to be a program limitation of CyberLink PowerDVD 8. Use PDVD7.3 if you need to rotate the screen. Contact CyberLink for details. This cannot be corrected by the video driver.

Status: No Fix (Third-party defect)

23. PDVD8 exits when playing H.264 video with the display flipped.

Reference #: 200850

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: CyberLink PowerDVD 8 will exit if you attempt to play an H.264 video with the display in a flipped mode. This appears to be a limitation of the PDVD 8 programming. Please contact CyberLink for details. This cannot be corrected by the video driver.

Status: No Fix (Third-party defect)

24. Translucent Display Properties box on the LVDS port may flash when moved.

Reference #: 200876

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: This issue occurs on all video devices tested including third-party add-in cards. This cannot be fixed in the IEGD driver.

Status: No Fix (OS/API issue)

25. System will either restart or crash/halt after wake up from SUSPEND S3 state.

Reference #: 200898

Driver: Graphics

Version: 10.4

Package: Linux, Moblin

Resolution: None.

Status: Plan Fix in upcoming 10.3.x Hot fix release



26. Rotation and flipping after running video may cause display corruption and system hang on an Intel® System Controller Hub US15W running Microsoft Vista*.

Reference #: 200901

Driver: Graphics

Version: 10.4

Package: Windows Vista

Resolution: When you install the IEGD driver, set the option in the configuration to disable rotation and flipping.

Status: No Fix (OS/API issue)

27. Google Earth* may have visual corruption on US15W.

Reference #: 200942

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: Setting graphics aperture to 256 may resolve the issue. Also, it has been noticed and validated that Google Earth 5.0 does not exhibit this issue (whereas Google Earth 4.3 does) and as such we believe this is a third-party issue related to Google Earth and was fixed in their latest GE 5.0 release.

Status: Plan Fix

28. MPEG2 video fails to run on PDVD8 in LVDS (extend) and DVI using software decode.

Reference #: 200946

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: CyberLink PowerDVD 8 will not play MPEG2 video with software decoder (hardware decode DXVA disabled). This appears to be a programming limitation in the CyberLink code. Using hardware decode does not appear to cause a problem. Contact CyberLink for details. This cannot be corrected by the video driver.

Status: No Fix (OS/API issue)

29. Resizing MPEG2 video in PDVD8 using hardware video decode in LVDS (extend) and DVI causes the player to exit.

Reference #: 200947

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: Resizing the player windows in CyberLink PowerDVD 8 when playing an MPEG2 using DXVA hardware video decode acceleration will cause the player to exit. It is recommended to not resize the player window while it is playing. This appears to be a CyberLink code limitation so please contact them for details. This cannot be corrected by the video driver.

Status: No Fix (OS/API issue)

**30. Overlay is not working when playing video in PDVD8 spanning two displays in extended mode.**

Reference #: 200948

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: CyberLink PowerDVD 8 will cease to display overlay video if the window is moved to span across two displays that are in extended mode. If the video is fully contained on one screen or the other screen it displays properly. This is a programming limitation in the PDVD 8 application code. Please contact CyberLink for details. This cannot be corrected by the video driver.

Status: No Fix (Third-party defect)

31. H.264 video fails to run on PDVD8 in LVDS (extend) and DVI using hardware decode.

Reference #: 200954

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: CyberLink PowerDVD 8 will not play H.264 video with hardware decode DXVA when running in Extended configuration. This is a programming limitation in the CyberLink code. Contact CyberLink for details. This cannot be corrected by the video driver.

Status: No Fix (OS/API issue)

32. ATI PCIe card may fail to work with IEGD VBIOS on an Intel® System Controller Hub US15W.

Reference #: 200974

Driver: Video BIOS

Version: 10.4

Package: VBIOS, Windows XP

Resolution: There appears to be an issue with some BIOSes with add-in PCIe video cards in the first PCIe slot. The vBIOS and driver cannot correct this issue. Please contact your BIOS provider.

Status: No Fix (Third-party defect)

33. Pixel Shaders version 2.0 on US15W may cause test failures.

Reference #: 200981

Driver: Graphics

Version: 10.4

Package: WEPOS, Windows eXP, Windows XP

Resolution: Very large pixel shader programs may take a long time to optimize for the US15W hardware. The amount of time to optimize the shader may exceed the watchdog timer Windows has set for the driver which can cause a blue screen or test failures. This is very rare and it is difficult to determine the cause.

Status: No Fix (OS/API issue)



34. GHOST.exe fails on US15W with Machine Check Error.

Reference #: 200989

Driver: Graphics

Version: 10.4

Package: VBIOS

Resolution: On US15W with older versions of GHOST customers were reporting seeing a machine check error. After investigating, this appears to be an application issue. While testing an older version of GHOST the reported error appears. After upgrading to the latest GHOST 5.0 the application runs as expected. If you encounter this issue please upgrade to the latest release.

Status: No Fix (Application defect)

35. ACPI S3/S4 fails to work with screen saver on US15W.

Reference #: 201008

Driver: Graphics

Version: 10.4

Package: WEPOS, Windows Vista, Windows XP

Resolution: When setting up the system to go to S3 (stand by), or S4 (hibernation) make sure to have the display power off BEFORE going into standby or hibernate. The issue is that some screen savers exceed the CPU utilization threshold (must be <10%) to allow standby or hibernate. Use the following guidelines:

1. Screen saver starts at M minutes
2. Power off display at N minutes (N > M)
3. Standby(s3)/hibernation(s4) at K minutes (K > N)

Status: No Fix (OS/API issue)

36. 3DMarkMobile ES 1.1 not rendering correctly on US15W.

Reference #: 201041

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: The version of 3DMarkMobile ES 1.1 supported by the current IEGD driver appears to be a release candidate and not an official release. In our investigations we have not been able to find any errors within the driver code. At this time we are attempting to verify on the latest release version. For the time being this appears to be a FutureMark defect. Please contact FutureMark for more details.

Status: No Fix (Third-party defect)

**37. Microsoft Vista fails to boot or install fully on 915GV and 945G using IEGD VBIOS.**

Reference #: 201046

Driver: Video BIOS

Version: 10.4

Package: Windows Vista

Resolution: Vista includes WDDM drivers for 915GV and 945G that assume the VBIOS is an Intel GMA VBIOS. IEGD VBIOS does not support configuring the GMA driver thus the GMA driver attempts to use an invalid configuration. At the point during install or boot into Vista where you get a black screen, use the following procedure:

- 1) Reboot the system (power off and back on)
- 2) Boot to Windows safe mode (Use the F8 key just before boot and from the boot menu select either "safe mode" or "VGA mode")
- 3) Uninstall the existing GMA WDDM driver
- 4) Install IEGD XDDM driver (follow the standard Windows install procedure)
- 5) Restart the system and use the IEGD driver.
Please contact Microsoft for details.

Status: No Fix (Third-party defect)

38. Rendered scaling - corrupted line on video / window when window is on top of video.

Reference #: 201056

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: This issue is a by-product of using bilinear filtering in render scaled (software scaling) mode. A change to eliminate the line would cause a performance issue causing video playback to be non-functional. To eliminate the line do not render scale or disable bilinear filtering. This issue will not be resolved.

Status: No Fix (Hardware limitation)

39. After resuming from S4 the background is not drawn correctly.

Reference #: 201071

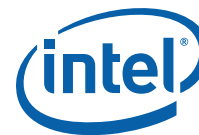
Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: This is a known operating system issue and the workaround is to right-click on the desktop, click **Refresh** and then the desktop reappears. Microsoft has a Knowledge Base article regarding this KB #887238. (<http://support.microsoft.com/kb/887238>) This will not be fixed in the driver.

Status: No Fix (OS issue)

**40. CE Player cannot play MPEG1 on all platforms.**

Reference #: 201163

Driver: Graphics

Version: 10.4

Package: Windows CE

Resolution: This issue is a third-party application defect in the Microsoft MPEG-1 codec.

Status: No Fix (Third-party defect)

41. Some videos may hang when running on Ubuntu and US15W.

Reference #: 201168

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: This issue was reported to crash on a specific video file. Upon closer examination it seems that the apparent crash was due to the way the file was edited in order to send it in for examination. The full original clip has been tested and it functions properly. This is a third-party issue.

Status: No Fix (Third-party defect)

42. Video corruption and green lines issue on Rendered Scaling.

Reference #: 201200

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: When render scaling is enabled and blending is used to copy source to destination an extra green line is visible when window manager refreshes the area around the overlay. The video image is on overlay and framebuffer is filled with a colorkey. Blending is done together with the colorkey (not the video image) around the area up to 4 pixels. This issue cannot be resolved because the driver cannot determine the area filled with colorkey for overlay. This issue will not be fixed.

Status: No Fix (Third-party defect)

43. Fields on GUI screens may not be visible on Windows XP Embedded.

Reference #: 201235

Driver: Graphics

Version: 10.4

Package: Windows XP Embedded

Resolution: For Windows XP Embedded, some of the fields on some of the GUI screens appear to be hidden. To fix this, copy the font MS Sans Serif(8) (sserife.fon) into the fonts folder in Control Panel. Then reboot the system. Everything thereafter should function as expected.

Status: No Fix (OS/API Issue)

**44. Secondary overlay causes a grey box in DIH and panned Clone configuration on Q45 and GM45.**

Reference #: 201236

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: Anomaly occurs with systems based on the Q45 and GM45, are in DIH display mode, startx has been executed, and playback of video files on each display is occurring concurrently. Dragging the video on the secondary display to the bottom of the screen or other locations causes grey box.

Status: No Fix (Hardware limitation)

45. Overlay corrupted green box in clone configuration persists even when switching to single mode on Q45 and GM45.

Reference #: 201270

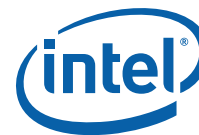
Driver: Graphics

Version: 10.4

Package: Linux

Resolution: When the corruption occurs in clone display configuration, the hardware registers are set. Switching back to single display configuration does not reset the registers and the corruption remains. The only way to reset the registers is to reboot the system. This will not be corrected.

Status: No Fix (Hardware defect)

**46. Playing video with audio enabled on US15W may trigger CyberLink PowerDVD 8.0 player to use software decode.**

Reference #: 201297

Driver: Graphics

Version: 10.4

Package: WEPOS, Windows XP, Windows eXP

Resolution: With PowerDVD 8.0 player, DVD playback switches to software decode and does not make use of hardware acceleration for MPEG-2 provided by IEGD. PowerDVD 8.0 player also switches to software decode if you try to play back HD (720p/1080p) H.264 files with audio enabled. PowerDVD 8.0 is capable of making use of hardware acceleration for H.264 video when audio is not enabled.

The IEGD driver fully supports the DXVA H.264 entrypoint and CyberLink's codecs fully support DXVA H.264 decode and work fine with IEGD. The issue lies with PowerDVD 8.0 player and is an intended behavior by CyberLink and not a bug.

Status: No Fix (Third-party defect)

47. Partial clipping on primary display becomes black and flickers on GM45 and Q45 chipsets.

Reference #: 201304

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: On GM45 and Q45 family of chipsets, when playing a video and resizing the window and moving it back and forth between the primary display and an extended display, you may experience flickering and black areas on the screen. Workaround: Do not resize or move the video window during playback. Only move the video window when playback has stopped or has not yet started.

Status: No Fix

48. System unable to wake up from STANDBY S1/S3 state on 915GV/GM965 using Fedora 7 or Fedora 10.

Reference #: 201307

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: None. This issue was reproduced on several platforms. All platforms can transition into S1/S3 states. No platform successfully exited S3. All platforms either hang at a post code or eventually reset. No platforms ever re-entered into the OS Kernel or into the driver code again. Furthermore this was reproduced with external graphics cards with no IEGD presence. This appears to be an OS issue and will not be resolved.

Status: No Fix (OS/API issue)



49. Video playback of advanced profile interlaced VC-1 clips displays corruption due to Microsoft codec reporting incorrect inter-frame CBP on US15W / WP.

Reference #: 201331

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: This is an MS codec issue. Please contact Microsoft for more details.

Status: No Fix (Third-party defect)

50. Java application corruption at 90°, 180°, and 270° rotation in either Single Twin or Clone Display Mode.

Reference #: 201358

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: Workaround: IEGD 10.3 users are instructed to update Java to the latest version which is Java SE 6 Update 17. With Java SE 6 Update 17 validation testing conducted by Intel shows no application corruption at 90°, 180°, and 270° rotation.

Status: No Fix (Third-party defect)

51. When video is closed midway and then restarted, it exhibits tearing on US15W.

Reference #: 201360

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: This is third-party application/codec defect. The workaround involves either making sure that a video using overlay is run until the end or in case of accidental closure of the running video simply restart X server (Ctrl + Alt + Backspace) to bring everything back to normal.

Status: No Fix (Third-party defect)

52. Screen flickering occurs when executing the donuts.exe 3D application on US15W running Windows CE 6.0.

Reference #: 201365

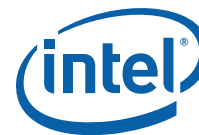
Driver: Graphics

Version: 10.4

Package: Windows CE

Resolution: None. This has been determined to be an application defect and will not be fixed.

Status: No Fix (Third-party defect)



53. US15W will not boot with CH7308 ADD2 card.

Reference #: 201369

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: It appears that the CH7308 ADD2 card draws more power than the Intel Crown Beach CRB can handle and thus the board will not boot with the card attached. It is a Chrontel defect. Contact Chrontel for a hardware-based solution and recommendations.

Status: No Fix (Third-party defect)

54. Rectangle draw speed drops after running DirectDraw* on US15W chipsets.

Reference #: 201370

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: This is a known issue with current IEGD interrupt mechanism on US15W chipsets with DirectDraw flip sync. A full fix is being determined. The current workaround for this issue is to add the Polling=1 into driver registry:

- 1) Use Regedit (or regedit32)
- 2) Determine the active IEGD registry entry (see the document *IEGD_Registry.pdf* available in the downloads section).
- 3) Seek to the active video entry.
- 4) Open the active video registry entry 0000/All/1/General
- 5) Add this new entry:

Name = Polling
Type = REG_DWORD
Data = 1

- 6) Reboot.

With interrupts disabled, 2D and 3D throughput may decrease, CPU utilization may be higher, and video decode performance/quality may degrade in some cases.

Status: No Fix

55. VC-1 video clips with multiple sequence headers may halt the system on US15W running Linux.

Reference #: 201383

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: This is a codec issue. All failed clips have multiple sequence headers. While running simple/main profiles the codec does not update the profile or other header information based on the next sequence header. The Linux codec appears to work correctly when there is only one sequence header with a single profile. Please contact your codec provider for more details.

Status: No Fix (Third-party defect)

**56. Using UMC Player, pixel corruption occurs within first 1 to 5 seconds for VC-1 720p and 1080p HD video playback on US15W running Linux.**

Reference #: 201384

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: This issue is reproducible only on the UMC player, which is not supported by IEGD. When running IEGD drivers, supported video players do not exhibit this anomaly. The UMC player has a built-in codec. As this cannot be reproduced by supported media players, this issue is a third-party defect. Please contact UMC player developer for a possible fix.

Status: No Fix (Third-party defect)

57. Video playback lags when two video files are playing under Windows CE simultaneously in Clone and Vertical Extended configurations using G45, 945GV, GM45, 915GV, Q35, Q965, and 945GM.

Reference #: 201415

Driver: Graphics

Version: 10.4

Package: Windows CE

Resolution: IEGD includes software support requested from Microsoft for the Windows CE operating system. This is a Microsoft defect. Please contact Microsoft about this issue.

Status: No Fix (OS issue)

58. H.264+PDVD8 across two screens in extended mode with partial clipping causes system lag on US15W running Windows XP.

Reference #: 201419

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: Windows will NOT properly play back H.264 content if DXVA acceleration is enabled, the video output is DVI, and the configuration is extended mode. This appears to be a Microsoft code limitation. Please contact Microsoft for details. This issue should be resolved upon migration to the May 2009 Microsoft Patch

Status: No Fix (Third-party defect)

59. Minor jerk during playback of H.264 video in Linux VA.

Reference #: 201430

Driver: Graphics

Version: 10.4

Package: Linux, Moblin

Resolution: Invoke vaSyncSurface backend (iegd_sync_surface) within iegd_begin_picture.

Status: No Fix (Third-party defect)



60. Unable to play progressive segmented frame VC-1 videos on US15W running Linux.

Reference #: 201431

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: This is a third-party defect. The codec does not parse/support the Progressive Segmented Frame (PSF) header field. In our testing it was clear that both splay and MPlayer failed to play PSF clips properly. Please contact your codec provider for more details.

Status: No Fix (Third-party defect)

61. All the icons on GNOME desktop may disappear after startx in 16-bit mode test.

Reference #: 201449

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: This issue is a third-party defect and can be reproduced on several other graphics drivers when running in 16-bit mode. Please check with your Linux distribution provider.

Status: No Fix (Third-party defect)

62. Slow performance in applications when in rotated mode on US15W.

Reference #: 201465

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: None. This is an OS/API limitation due to the way rotation is handled in XP. Please contact Microsoft for more details.

Status: Plan Fix

63. Screen flickering occurs while launching the 3D program called "ddex4.exe" on Windows CE.

Reference #: 201478

Driver: Graphics

Version: 10.4

Package: Windows CE

Resolution: This has been determined to be an application defect due to the way the application handles flipping. This will not be fixed.

Status: No Fix (Third-party defect)



64. Running Xtest under Fedora 10 causes two modules named “acpid” and “rsyslogd” to hang after Xtest completes on Gen3 and Gen4 chipset-based platforms.

Reference #: 201479

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: A defect exists in one of the modules in Linux Fedora 10 that prevents X server starting when an attempt is made to run startx. Workaround is to restart the PC to continue startx.

Status: No Fix (Third-party defect)

65. Screen flicker while pausing and then resuming play during the H.264 movie playback.

Reference #: 201483

Driver: Graphics

Version: 10.4

Package: Windows CE

Resolution: The flickering is caused by a hardware limitation. With high resolution (> 1024x768), this issue happens with overlay enabled and while executing 2D blit. One workaround is to set the screen to lower resolution.

Status: No Fix (Hardware limitation)

66. US15W performance slow when flip is enabled.

Reference #: 201497

Driver: Graphics

Version: 10.4

Package: Windows CE

Resolution: This is a hardware limitation. The driver uses blend calls when rotating and the hardware deals with them in a slow manner.

Status: No Fix (Hardware limitation)

67. Stretch blit performance is low with Windows CE compared to XP on US15W.

Reference #: 201499

Driver: Graphics

Version: 10.4

Package: Windows CE

Resolution: This issue occurs with a specific application. During debugging it was discovered that the application was not really requesting a stretch but was requesting a sys->vid blit and those are handled by the OS. XP does a better job compared to Windows CE in this particular scenario. This was determined to be an application issue.

Status: No Fix (OS/API issue)



68. On Windows XP, 3DMark06 batch size tests present black screen on Intel® System Controller Hub US15W.

Reference #: 201508

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: Due to lack of support for this functionality the current symptom is an expected behavior.

Status: No Fix (OS/API issue)

69. Unable to turn on TV out via CH7022 SDTV / HDTV Encoder on GM965.

Reference #: 201513

Driver: Graphics

Version: 10.4

Package: Linux, vBIOS, Windows CE

Resolution: This issue occurs only with CH7022 SDVO compatible SDTV/HDTV Encoder driven by the GM965. On other platforms CH7022 works as expected. CH7022 with GM965 and the GMA driver exhibits the same issue. This issue is resolved as a hardware defect because it can be reproduced only in this configuration and occurs on other drivers as well as all other operating systems. Please contact Chronitel for a hardware-based solution and recommendations.

Status: No Fix (Hardware defect)

70. The fonts for the prompt menu for IEGD installation / uninstallation are invisible on US15W running Windows XP.

Reference #: 201530

Driver: Graphics

Version: 10.4

Package: Windows XP Embedded

Resolution: This issue occurs even without the IEGD driver installed; thus it is believed to be an OS/API issue. Please contact Microsoft for more details.

Status: No Fix (OS/API issue)

71. DirectX 7 / 8 application freeze after wake up from ACPI S1, S3 and S4.

Reference #: 201535

Driver: Graphics

Version: 10.4

Package: Windows Vista

Resolution: The same scenario is observed on the GMA driver as well. This issue relies on the application to properly use context destruction and creation. In this case it is not happening properly and it is believed to be an application defect. Please contact Microsoft for more details.

Status: No Fix (Application defect)

**72. In Linux GNOME the title bar is corrupted when an application window size is oversized and then set to screen size in partial clipping test.**

Reference #: 201536

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: This is believed to be a GNOME defect. In testing KDE does not exhibit this issue. The VESA driver, NVIDIA driver, and Intel open source driver all exhibit this same problem. A possible workaround would be to use KDE instead of GNOME.

Status: No Fix (Third-party defect)

73. IRQ conflict with IEGD and ethernet device with Windows CE on Intel® System Controller Hub US15W.

Reference #: 201544

Driver: Graphics

Version: 10.4

Package: Windows CE

Resolution: If you disable the Network Controller or use "KITL-Mode" (polling -> no IRQ) with Windows CE Platform Builder everything works. The problem also did not occur when the following registry keys (which were new in IEGD 10.1) are not used:

```
[HKEY_LOCAL_MACHINE\Drivers\BuiltIn\PCI\Template\IEGD]
```

```
"Dll"="isr_iegd.dll"
```

```
"Class"=dword:03
```

```
"SubClass"=dword:00
```

```
"ProgIF"=dword:00
```

```
"VendorID"=multi_sz:"8086"
```

```
"DeviceID"=multi_sz:"8108"
```

```
; US15W is the only chipset supporting interrupts
```

```
"Prefix"="IGD"
```

```
"IsrDll"="isr_iegd.dll"
```

```
"IsrHandler"="isr_handler"
```

Status: No Fix (Not a defect)

74. CED prevents user from selecting display ports that results in the vga.bin generated being larger than 64k.

Reference #: 201547

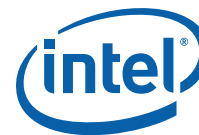
Driver: CED

Version: 10.4

Package: CED

Resolution: None.

Status: No Fix



75. Both 3DMarkMobile ES 2.0 / 1.1 not rendering properly on US15W and causes segfault.

Reference #: 201589

Driver: Graphics

Version: 10.4

Package: Windows CE

Resolution: Add this registry to drop the process priority of the Windows CE video renderer [HKLM\SOFTWARE\Microsoft\DirectShow\ThreadPriority\AsyncVideoRenderer]=dword:FA (250, normal is 251). After the thread priority of the video renderer is decreased it will set the color key value correctly.

Status: No Fix (OS/API issue)

76. Screen corruption occurs in 1280x1024 resolution using Linux Fedora 10 on Q35.

Reference #: 201598

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: Change the active resolution from 1280x1024 to another resolution or use Fedora 7 with 1280x1024 active resolution.

Status: Plan Fix

77. Corruption found when running CEPlayer and playing WMV file on Windows CE 6 with April 2009 patch.

Reference #: 201606

Driver: Graphics

Version: 10.4

Package: Windows CE

Resolution: 1) Copy the wmvdm.lib and wmvdm.pdb files from:
C:\WINCE600\Updates\Backup\090430_2009M04\PUBLIC\DIRECTX\OAK\LIB\X86\DEBUG
and
C:\WINCE600\Updates\Backup\090430_2009M04\PUBLIC\DIRECTX\OAK\LIB\X86\RETAIL
to
C:\WINCE600\PUBLIC\DIRECTX\OAK\LIB\X86\DEBUG
and
C:\WINCE600\PUBLIC\DIRECTX\OAK\LIB\X86\RETAIL
2) Perform a clean sysgen.
Intel recommends that you back up the two new files after installing the patch.

Status: No Fix (Third-party defect)

**78. Clutter “test-fbo” application fails to create an off-screen Frame Buffer Object (FBO) under Moblin.**

Reference #: 201609

Driver: Graphics

Version: 10.4

Package: Moblin

Resolution: This is not a driver defect. Older tarball versions from the clutter website exhibited this Frame Buffer Object (FBO) failure. This defect arises from incorrect logic in Clutter's tracking of visible/realized actors. Upon analysis it was determined that there were no calls to the driver being made during the time of failure.

Workaround: Upgrade the version of clutter used. If the issue persists please contact the clutter project via <http://clutter-project.org/>

Status: No Fix (Third-party defect)

79. MPEG2 and H.264 Video Clips played back using PowerDVD8 cause blanked screen using Windows XP Embedded.

Reference #: 201618

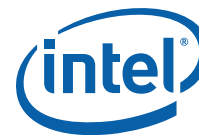
Driver: Graphics

Version: 10.4

Package: Windows eXP

Resolution: Third-party defect: Fixed with CyberLink PowerDVD8 player patch
Refer to this Cyberlink FAQ:
http://docs.cyberlink.com/multi/support/answerbox_productfaq.jsp?FID=6707&nProdId=1&nProdVerId=214
Please update your PowerDVD to the latest version and download the latest PowerDVD update file listed on the aforementioned web page.
If you still receive the same error code when you try to play back .trp video files please contact CyberLink Customer Support directly. Make sure to provide the exact error message you received.

Status: Resolved with new version of CyberLink PowerDVD8 application and update file.



80. Windows Presentation Foundation (WPF) 3.5 (.net 3.5 SP1) application runs slower under Windows XP on US15W and with D3D acceleration on.

Reference #: 201634

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: This issue occurs due to how Microsoft chooses to handle WPF API calls.

Due to this handling of WPF within the 10.3.1 IEGD release, we have enabled all WPF applications to run via software acceleration by default.

This workaround will enable all WPF applications (only WPF) to use software acceleration instead of hardware acceleration, possibly enabling smoother/better performance. It should be noted that this is a workaround and NOT a resolution, as it mainly occurs due to how WPF handles the individual API calls. With this workaround, for some applications you may get more optimal performance utilizing hardware acceleration and others may perform better with software acceleration. Please try your application with this workaround and without it to see which mode works best for your specific application.

In IEGD 10.3.1 a new setting called "Disable WPF Hardware Acceleration: Yes (default) / No" can be found in CED regarding this WPF functionality.

Status: Third party defect/Resolved

81. Render Scaling /Centering fails when changing display modes via the (Ctrl + Alt + +) keystroke under Fedora 7.

Reference #: 201652

Driver: Graphics

Version: 10.4

Package: Linux

Resolution: Under investigation. No planned work around at this time.

Status: Plan Fix

82. OpenGL ES test application with alpha blending hangs for several seconds and resumes again using IEGD 10.1.

Reference #: 201667

Driver: Graphics

Version: 10.4

Package: Windows CE

Resolution: This is not a driver issue. This issue only occurs when the Windows CE OGL application uses the SetTimer() function. This is a known OS issue where Windows CE kernel for interrupt handler does not handle the thread properly when the timer is finished. In order to have SetTimer functioning properly in OGL application the thread running this function must be set with highest priority.

Status: No Fix (OS/API Issue)

**83. US15W system hangs when running Moblin with Tegriss game above 640x480 resolution.**

Reference #: 201673

Driver: Graphics

Version: 10.4

Package: Moblin

Resolution: This issue occurs due to the unorthodox way this application measures FPS. It is an application issue and does not occur with other known applications. As a possible workaround please use resolutions less than 640x480 with this application.

Status: No Fix (Third-party defect)

84. 3DMarkMobile ES 2.0 missing extension “wglSwapIntervalEXT” under Windows XP on US15W.

Reference #: 201805

Driver: 3D Graphics

Version: 10.4

Package: Windows XP

Resolution: None.

Status: No Fix

85. On Windows XP - Java RIA demo application (Snowman) intermittently hangs or crashes on Intel® System Controller Hub US15W.

Reference #: 201834

Driver: 2D, 3D Graphics

Version: 10.4

Package: Windows XP

Resolution: This issue is still under investigation but based on initial inspection it appears that Java crashes because it is committing an access violation randomly at different locations. More data will be provided upon deeper analysis of this issue.

Status: Plan Fix

86. Not able to install IEGD driver after PCI driver for PCI-E graphics card installed on Intel Atom™ Processor 400 and 500 Series-based platform.

Reference #: 201861

Driver: Installer

Version: 10.4

Package: Windows XP

Resolution: This is a system BIOS issue. Recommended workaround is to use the “IGD” as primary display in the system BIOS settings and install IEGD driver first for Atom™ 400 and 500 Series [GPU+CPU] device. With this change we are able to install the IEGD driver first and graphics driver for the PCI-E card second, allowing correct system functionality.

Status: No Fix (Third-party defect)

**87. ACPI will not wake up from S1 and S3 Modes on Intel Atom 400 and 500 series with GMA 3150 Graphics Media Accelerator.**

Reference #: 201891

Driver: Graphics

Version: 10.4

Package: Windows Vista

Resolution: None.

Status: No Fix (Third-party defect)

88. VA allocation failing: vaCreateSurfaces when customer runs their test application for 1 hour on US15W.

Reference #: 202063

Driver: Graphics

Version: 10.4

Package: Moblin

Resolution: This was not a driver issue but was caused by customer using incorrect binary versions along with an incorrect libva driver path.

Status: No Fix (User error)

89. Customer's MPlayer / VA-API custom test crashes after 5 minutes on Intel® System Controller Hub US15W.

Reference #: 202075

Driver: Graphics

Version: 10.4

Package: Moblin

Resolution: This issue was not a driver issue. Customer did not set the correct libva variable path.

Status: No Fix (User error)

90. Overlay test application failing with VA-API Video Acceleration on Intel® System Controller Hub US15W.

Reference #: 202096

Driver: Graphics

Version: 10.4

Package: Moblin

Resolution: None.

Status: Plan Fix

**91. System hangs within the video BIOS with CH7317 on Linux.**

Reference #: 202180

Driver: VBIOS

Version: 10.4

Package: VBIOS

Resolution: The best next step is to turn off Video Repost and see what happens. Often the display is blank on resume but the system is alive. Upon going into X (or going back to X) the display should be fully restored.

Status: No Fix (Third-party defect)

92. Customer's H.264 decoder not working with 10.3 but does work with 10.2.

Reference #: 202230

Driver: Graphics

Version: 10.4

Package: Moblin, Ubuntu

Resolution: This is was not a driver issue but was instead a customer application issue involving customer application providing incorrect picture_id parameters.

Status: No Fix (Third-party defect)

93. Windows CE 3D test SpaceDonuts has distorted output.

Reference #: 202292

Driver: Graphics

Version: 10.4

Package: Windows CE

Resolution: None.

Status: No Fix (Third-party defect)

94. H.264 HD video shows block artifacts decoding with VAAPI hardware acceleration.

Reference #: 202795

Driver: Graphics

Version: 10.4

Package: Ubuntu

Resolution: UMC_Player works as expected. This issue has been determined to be a third-party defect.

Status: No Fix (Third-party defect)



95. X server (using Xorg 1.4) crashes after long term MPlayer looping.

Reference #: 202921

Driver: Graphics

Version: 10.4

Package: Ubuntu

Resolution: This issue is due to a memory leak and was reproducible only using Xorg 1.4. Upgrading to X 1.6.3 resolved this issue.

Status: No Fix (Third-party defect)

96. Fedora failing or crashing when S3 is run multiple times on US15W.

Reference #: 202940

Driver: Graphics

Version: 10.4

Package: Fedora

Resolution: This issue is still under investigation.

Status: TBD

97. Extended mode crashes with display detect and monitor attached after boot on 945GSE.

Reference #: 202391

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: Do not use display detection or bring the system up with both monitors connected.

As a better work around, disable Display Detect and set the correct port order that you need. For example using 52000 as a port order in your configuration file, the SDVO display should only be connected to the system after booting into Windows and then Extended Mode can be set with the secondary display connected to the system.

Status: No Fix

98. The system may hang after turning on the IEGD as secondary display when primary video device is set to External PCI on Intel 915GV.

Reference #: 2195903

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: Refer to the PCI config space MMIO allocations to see if the BIOS is incorrectly re-allocating the MMIO PCI bus address to the second display device. If so (such is the case of this errata), work with board / BIOS vendor for an updated system BIOS.

Status: No Fix (Third-party defect)

**99. Backlight timed events are incorrectly timed (delayed) if the VBIOS I/O cycle is not 1ms.**

Reference #: 2329044

Driver: VBIOS

Version: 10.4

Package: Other

Resolution: The VBIOS timing method may not be highly accurate on some platforms. This can affect the T1- T5 timing of LVDS backlight events. If your system is affected, you may need to adjust your timing values to compensate.

Status: No Fix (Third-party defect)

100. Incorrect resolution on DVI display when 640x480 resolution is set and in Clone and Twin configuration in Windows CE.

Reference #: 2441156

Driver: Graphics

Version: 10.4

Package: Windows CE

Resolution: The driver is correctly setting 640x480 resolution and timing. This is likely an issue with the DVI panel measuring the mode and displaying the wrong mode information. Ignore the information the monitor is telling you as it is inaccurate.

Status: No Fix (Hardware defect)

101. Possible Display Corruption on National Semi 2501 when it is configured as secondary display on 640x 480 mode.

Reference #: 2483055

Driver: Graphics

Version: 10.4

Package: Windows XP

Resolution: With some displays that have a maximum resolution of 1280x1024 or 1400x1050, when displaying a low-speed 640x480 resolution, there may be noise/corruption on the bottom portion of the screen. This is a timing tuning issue for the panel timing. The NS2501 port driver is hard coded for this timing. You may need to contact National Semiconductor for a custom driver to resolve this issue.

Status: No Fix (Third-party defect)

102. Internal TV screen may black out or flicker after several rapid changes of the Standard Definition TV format.

Reference #: 2549997

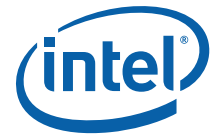
Driver: Graphics

Version: 10.4

Package: Linux

Resolution: Workaround: Allow time for the TV to settle out between format changes. This seems to be more of an issue with the TV itself rather than the driver and will not be fixed in the driver.

Status: No Fix (Hardware limitation)



103. On Windows XP, EGDGUI information not formatted properly in Display Properties Tab on Intel 945GME.

Reference #: 2593149

Driver: Graphics

Version: 10.4

Package: Windows xP

Resolution: This issue was resolved as user error. Four fonts (Serife, serif, sserife & sseriff) were added and the problem disappeared. As an additional work around user can use the IEGDGUI.exe file instead of the Display Properties tab.

Status: No Fix (Working as expected)

Issues Closed in Version 10.4

Issues that have been either resolved or for some other reason are no longer considered open in the current software version are included here.

Table 5. Resolved Issues

ID	Package	Errata	Status
200898	Windows XP	Translucent Display Properties box on the LVDS port may flash when moved.	Fixed
201582	Windows XP	3DMarkMobile ES 2.0 may not render properly on US15W and causes segfault.	Fixed
202012	Windows XP	On Windows XP screen flashes with IBASE I888 system when resolution is above 1366x768 on Intel® System Controller Hub US15W.	Fixed
202391	Windows XP	Extended mode crashes with display detect and monitor attached after boot on 945GSE.	Fixed
202979	Windows XP	Blue screen appears when customer unplugs DVI monitor when display detect is enabled.	Fixed

