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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## Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>March 2010</td>
<td>031</td>
<td>Specification update for the 10.3.1 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.</td>
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<tr>
<td>February 2010</td>
<td>030</td>
<td>Specification update for the 10.3 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.</td>
</tr>
<tr>
<td>December 2009</td>
<td>029</td>
<td>Specification update for the 10.3 Preliminary release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.</td>
</tr>
<tr>
<td>October 2009</td>
<td>028</td>
<td>Specification update for the 10.2 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.</td>
</tr>
<tr>
<td>September 2009</td>
<td>027</td>
<td>PRELIMINARY specification update for the 10.2 Preliminary release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.</td>
</tr>
<tr>
<td>July 2009</td>
<td>026</td>
<td>Specification update for the 10.1 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.</td>
</tr>
<tr>
<td>June 2009</td>
<td>025</td>
<td>Specification update for the 10.1 Preliminary release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.</td>
</tr>
<tr>
<td>May 2009</td>
<td>024</td>
<td>Specification update for the 10.0.2 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.</td>
</tr>
<tr>
<td>March 2009</td>
<td>023</td>
<td>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.</td>
</tr>
<tr>
<td>February 2009</td>
<td>022</td>
<td>Specification update for the Preliminary 10.0 release of the Intel® Embedded Graphics Drivers, EFI Video Driver, and Video BIOS.</td>
</tr>
<tr>
<td>February 2009</td>
<td>021</td>
<td>Specification update for the 9.1.1 release of the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS, with added information for #200385.</td>
</tr>
<tr>
<td>December 2008</td>
<td>019</td>
<td>PRELIMINARY specification update for the 9.1.1 Beta 3 release of the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS.</td>
</tr>
<tr>
<td>November 2008</td>
<td>018</td>
<td>PRELIMINARY specification update for the 9.1.1 Beta 2 release of the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS.</td>
</tr>
<tr>
<td>November 2008</td>
<td>017</td>
<td>PRELIMINARY specification update for the 9.1.1 release of the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS.</td>
</tr>
<tr>
<td>October 2008</td>
<td>015</td>
<td>PRELIMINARY specification update for the 9.1 Beta 2 release of the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS.</td>
</tr>
<tr>
<td>September 2008</td>
<td>014</td>
<td>PRELIMINARY specification update for the 9.1 release of the Intel® Embedded Graphics Drivers, EFI Driver, and Video BIOS.</td>
</tr>
<tr>
<td>August 2008</td>
<td>013</td>
<td>Specification update for the 9.0.2 release of the Intel® Embedded Graphics Drivers and Video BIOS.</td>
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</table>
## Revision History—IEGD

<table>
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<tr>
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<th>Revision</th>
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<tr>
<td>May 2008</td>
<td>010</td>
<td>PRELIMINARY specification update for the 9.0 Release of the Intel® Embedded Graphics Drivers and Video BIOS.</td>
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<tr>
<td>October 2007</td>
<td>009</td>
<td>Specification update for 8.0 release of the Intel® Embedded Graphics Drivers and Video BIOS.</td>
</tr>
<tr>
<td>August 2007</td>
<td>008</td>
<td>PRELIMINARY specification update for the 8.0 Release of the Intel® Embedded Graphics Drivers and Video BIOS.</td>
</tr>
<tr>
<td>June 2007</td>
<td>007</td>
<td>Specification update for 7.0 release of the Intel® Embedded Graphics Drivers and Video BIOS.</td>
</tr>
<tr>
<td>April 2007</td>
<td>006</td>
<td>PRELIMINARY specification update for the 7.0 Release of the Intel® Embedded Graphics Drivers and Video BIOS. This specification update was formerly titled Intel® Embedded Graphics Drivers and Video BIOS Errata.</td>
</tr>
<tr>
<td>December 2006</td>
<td>005</td>
<td>Errata updated for the 6.1 Release of the Intel® Embedded Graphics Drivers and Video BIOS. Change bars indicate areas of change.</td>
</tr>
<tr>
<td>September 2006</td>
<td>004</td>
<td>Errata updated for the 6.0 Release of the Intel® Embedded Graphics Drivers and Video BIOS.</td>
</tr>
<tr>
<td>June 2006</td>
<td>003</td>
<td>Errata updated for the 5.1 Release of the Intel® Embedded Graphics Drivers and Video BIOS.</td>
</tr>
<tr>
<td>February 2006</td>
<td>002</td>
<td>Errata updated for the 5.0 Release of the Intel® Embedded Graphics Drivers and Video BIOS.</td>
</tr>
<tr>
<td>October 2005</td>
<td>001</td>
<td>Errata updated for the 4.1 Release of the Intel® Embedded Graphics Drivers and Video BIOS.</td>
</tr>
</tbody>
</table>
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® Q45/G41/G45 Express chipset
- Mobile Intel® GM45/GL40/GS45 Express chipset
- Intel® System Controller Hub US15W/US15WP/WPT chipset
- Intel® Q35 Express chipset
- Mobile Intel® GLE960/GME965 Express chipset
- Intel® Q965 Express chipset
- Mobile Intel® 945GSE Express chipset
- Mobile Intel® 945GME Express chipset
- Intel® 945G Express chipset
- Intel® 915GV Express chipset
- Mobile Intel® 915GME Express chipset
- Mobile Intel® 910GMLE Express 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, ATM machines, 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 the IEGD and a Video BIOS (VBIOS) component. These two components are configurable and work together to provide a wide range of features.
**Introduction—IEGD**

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 10.3.1 of the IEGD product. It includes information on the following packages:
- Linux
  - DirectX* 8.1 (DirectDraw* and Direct3D*)
  - DirectX 9 (DirectDraw and Direct3D)
- Microsoft Windows CE 5.0 and Windows CE 6.0 R2
- VBIOS

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

<table>
<thead>
<tr>
<th>Title</th>
<th>Number</th>
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</thead>
<tbody>
<tr>
<td>Intel® Embedded Graphics Drivers for Embedded Intel® Architecture-based Chipsets Product Brief</td>
<td>315587</td>
</tr>
<tr>
<td>Intel® Embedded Graphics Drivers and Video BIOS User’s Guide</td>
<td>274041</td>
</tr>
<tr>
<td>Intel® I/O Controller Hub 9 (ICH9) Family Datasheet</td>
<td>316972</td>
</tr>
<tr>
<td>Mobile Intel® 4 Series Express Chipset Family</td>
<td>320122</td>
</tr>
<tr>
<td>Intel® Atom™ Processor Z5xx* Series Datasheet</td>
<td>319535</td>
</tr>
<tr>
<td>Intel® System Controller Hub (Intel® SCH)</td>
<td>319537</td>
</tr>
<tr>
<td>Intel® 3 Series Express Chipset Family Datasheet</td>
<td>316966</td>
</tr>
<tr>
<td>Intel® I/O Controller Hub 10 (ICH10) Family Datasheet</td>
<td>319973</td>
</tr>
<tr>
<td>Mobile Intel® 965 Express Chipset Family Datasheet</td>
<td>316273</td>
</tr>
<tr>
<td>Intel® 965 Express Chipset Family Datasheet</td>
<td>313053</td>
</tr>
<tr>
<td>Mobile Intel® 945GM/PM/GMS Express Chipset Datasheet</td>
<td>309219</td>
</tr>
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</table>
Table 1. Affected Documents, Related Documents, and Reference Information (Sheet 2 of 2)

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
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</thead>
<tbody>
<tr>
<td>Errata (plural)</td>
<td>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.</td>
</tr>
<tr>
<td>Erratum (singular)</td>
<td></td>
</tr>
</tbody>
</table>

Table 2. Conventions and Terminology

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Errata</strong> (plural)</td>
<td><strong>Errata</strong> 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.</td>
</tr>
<tr>
<td><strong>Erratum</strong> (singular)</td>
<td></td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Status Indicator</th>
<th>Column</th>
<th>Definition</th>
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<tbody>
<tr>
<td>X</td>
<td>Driver Version</td>
<td>Indicates that an erratum exists</td>
</tr>
<tr>
<td>Plan Fix</td>
<td>Status</td>
<td>This erratum may be fixed in a future release.</td>
</tr>
<tr>
<td>Fixed</td>
<td>Status</td>
<td>This erratum has been previously fixed.</td>
</tr>
<tr>
<td>No Fix</td>
<td>Status</td>
<td>There are no plans to fix this erratum.</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>ID</th>
<th>Driver Version</th>
<th>Package</th>
<th>Errata</th>
<th>Status</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>200156</td>
<td>X</td>
<td>WEPOS, Windows XP</td>
<td>Pixel corruption on XP when the video is partially clipped in extended direction in 8-bit mode.</td>
<td>No Fix (OS/API issue)</td>
<td>16</td>
</tr>
<tr>
<td>200312</td>
<td>X</td>
<td>VBIOS</td>
<td>Display flashes when booting up IEGD on Intel® System Controller Hub US15W on VBIOS.</td>
<td>No Fix (OS/API issue)</td>
<td>16</td>
</tr>
<tr>
<td>200314</td>
<td>X</td>
<td>Windows XP</td>
<td>Microsoft Verifier incorrectly identifies errors in the IEGD drivers. A blue screen is displayed when running Direct3D with power management in clone mode.</td>
<td>No Fix (Third-party defect)</td>
<td>16</td>
</tr>
<tr>
<td>200369</td>
<td>X</td>
<td>Linux</td>
<td>Overlay flickers on primary video display on D1 step and earlier US15W.</td>
<td>No Fix (Hardware defect)</td>
<td>17</td>
</tr>
<tr>
<td>200462</td>
<td>X</td>
<td>Windows CE</td>
<td>System slow when remotely accessing a GIF file on 910GML and Windows CE.</td>
<td>No Fix (OS/API issue)</td>
<td>17</td>
</tr>
<tr>
<td>200531</td>
<td>X</td>
<td>Linux</td>
<td>Direct Rendering 3D not working when run on Ubuntu 8.0.4, Fedora 7 kernel 2.6.24.4 on 945GME.</td>
<td>Plan Fix</td>
<td>17</td>
</tr>
<tr>
<td>200555</td>
<td>X</td>
<td>VBIOS</td>
<td>IEGD VBIOS terminate and stay resident (TSR) program hangs and freezes the system on Q45.</td>
<td>No Fix (Third-party defect)</td>
<td>18</td>
</tr>
<tr>
<td>200617</td>
<td>X</td>
<td>Windows XP</td>
<td>MPEG-2 video is blank when running on DVI using software decode on Windows Media Player*.</td>
<td>No Fix (OS/API issue)</td>
<td>18</td>
</tr>
</tbody>
</table>
### Table 4. Errata (Sheet 2 of 7)

<table>
<thead>
<tr>
<th>ID</th>
<th>Driver Version</th>
<th>Package</th>
<th>Errata</th>
<th>Status</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>200618</td>
<td>X</td>
<td>Windows XP</td>
<td>MPEG-2 video may be blank when running on DVI in extended mode using hardware decode in Windows Media Player* 11.</td>
<td>No Fix (Third-party defect)</td>
<td>18</td>
</tr>
<tr>
<td>200624</td>
<td>X</td>
<td>Windows XP</td>
<td>VC1 Video cannot be played on LVDS in extended mode using Windows Media Player* and software decode.</td>
<td>No Fix (Third-party defect)</td>
<td>18</td>
</tr>
<tr>
<td>200641</td>
<td>X</td>
<td>Windows XP</td>
<td>Changing display resolutions while playing video in Windows* Media Player causes video hang/blank and system hang.</td>
<td>No Fix (Third-party defect)</td>
<td>19</td>
</tr>
<tr>
<td>200645</td>
<td>X</td>
<td>Windows Vista</td>
<td>ACPI S3/S4 can fail in some cases in Vista* with IEGD.</td>
<td>No Fix (OS/API issue)</td>
<td>19</td>
</tr>
<tr>
<td>200672</td>
<td>X</td>
<td>Windows XP</td>
<td>Windows Media Player* 10 may cause failure to play MPEG2, H.264, and VC1 video in PowerDVD8 player.</td>
<td>No Fix (Third-party defect)</td>
<td>19</td>
</tr>
<tr>
<td>200679</td>
<td>X</td>
<td>Windows XP</td>
<td>Running video using full video acceleration in rotation causes video hang and blank when flipping horizontally.</td>
<td>No Fix (Third-party defect)</td>
<td>20</td>
</tr>
<tr>
<td>200681</td>
<td>X</td>
<td>Linux, Windows XP</td>
<td>Display ID data (EDID) may be interpreted incorrectly on Q45 when CH7307 is used.</td>
<td>No Fix (Hardware defect)</td>
<td>20</td>
</tr>
<tr>
<td>200697</td>
<td>X</td>
<td>Linux</td>
<td>In certain situations setting the EDID option to use edid (1) may fail to use the EDIDAvail setting.</td>
<td>Plan Fix</td>
<td>20</td>
</tr>
<tr>
<td>200707</td>
<td>X</td>
<td>Windows Vista</td>
<td>Screen rotation in Microsoft Vista* may cause distortion if Side Bar / Gadgets are used.</td>
<td>No Fix (OS/API issue)</td>
<td>20</td>
</tr>
<tr>
<td>200770</td>
<td>X</td>
<td>Linux</td>
<td>Tearing seen when playing movie with XVBlen on Intel® System Controller Hub US15W.</td>
<td>No Fix (Hardware limitation)</td>
<td>21</td>
</tr>
<tr>
<td>200806</td>
<td>X</td>
<td>Linux</td>
<td>xegl demo es1_msaa failed to run on X-Server 1.3.</td>
<td>No Fix (OS/API issue)</td>
<td>21</td>
</tr>
<tr>
<td>200819</td>
<td>X</td>
<td>Windows Vista</td>
<td>Icons appear in wrong bit depth on secondary display if primary display is lower BPP.</td>
<td>No Fix (OS/AI issue)</td>
<td>21</td>
</tr>
<tr>
<td>200820</td>
<td>X</td>
<td>Linux</td>
<td>3DMarkMobile ES 2.0 is not rendering correctly and will segfault on US15W.</td>
<td>No Fix (OS/API issue)</td>
<td>21</td>
</tr>
<tr>
<td>200824</td>
<td>X</td>
<td>Windows Vista</td>
<td>Running 3D application on Microsoft Vista* may cause the side bar on desktop to flicker.</td>
<td>No Fix (OS/API issue)</td>
<td>22</td>
</tr>
<tr>
<td>200832</td>
<td>X</td>
<td>Windows XP</td>
<td>PDVD8 screen blank playing H.264 and VC1 video with rotated display.</td>
<td>No Fix (Third-party defect)</td>
<td>22</td>
</tr>
<tr>
<td>200850</td>
<td>X</td>
<td>Windows XP</td>
<td>PDVD8 exits when playing H.264 video with the display flipped.</td>
<td>No Fix (Third-party defect)</td>
<td>22</td>
</tr>
<tr>
<td>200876</td>
<td>X</td>
<td>Windows XP</td>
<td>Translucent Display Properties box on the LVDS port may flash when moved.</td>
<td>No Fix (OS/API issue)</td>
<td>22</td>
</tr>
</tbody>
</table>
Table 4. **Errata (Sheet 3 of 7)**

<table>
<thead>
<tr>
<th>ID</th>
<th>Driver Version</th>
<th>Package</th>
<th>Errata</th>
<th>Status</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>200898</td>
<td>10.3.1</td>
<td>Linux, Moblin</td>
<td>System will either restart or crash/halt after wake up from SUSPEND S3 state.</td>
<td>Plan Fix in upcoming 10.3.x Hot fix release</td>
<td>23</td>
</tr>
<tr>
<td>200901</td>
<td></td>
<td>Windows Vista</td>
<td>Rotation and flipping after running video may cause display corruption and system hang on an Intel® System Controller Hub US15W running Microsoft Vista*.</td>
<td>No Fix (OS/API issue)</td>
<td>23</td>
</tr>
<tr>
<td>200942</td>
<td></td>
<td>Linux</td>
<td>Google Earth* may have visual corruption on US15W.</td>
<td>Plan Fix</td>
<td>23</td>
</tr>
<tr>
<td>200946</td>
<td></td>
<td>Windows XP</td>
<td>MPEG2 video fails to run on PDVD8 in LVDS (extend) and DVI using software decode.</td>
<td>No Fix (OS/API issue)</td>
<td>23</td>
</tr>
<tr>
<td>200947</td>
<td></td>
<td>Windows XP</td>
<td>Resizing MPEG2 video in PDVD8 using hardware video decode in LVDS (extend) and DVI causes the player to exit.</td>
<td>No Fix (OS/API issue)</td>
<td>24</td>
</tr>
<tr>
<td>200948</td>
<td></td>
<td>Windows XP</td>
<td>Overlay is not working when playing video in PDVD8 spanning two displays in extended mode.</td>
<td>No Fix (Third-party defect)</td>
<td>24</td>
</tr>
<tr>
<td>200954</td>
<td></td>
<td>Windows XP</td>
<td>H.264 video fails to run on PDVD8 in LVDS (extend) and DVI using hardware decode.</td>
<td>No Fix (OS/API issue)</td>
<td>24</td>
</tr>
<tr>
<td>200974</td>
<td></td>
<td>VBIOS, Windows XP</td>
<td>ATI PCIe card may fail to work with IEGD VBIOS on an Intel® System Controller Hub US15W.</td>
<td>No Fix (Third-party defect)</td>
<td>24</td>
</tr>
<tr>
<td>200981</td>
<td></td>
<td>WEPOS, Windows eXP, Windows XP</td>
<td>Pixel Shaders version 2.0 on US15W may cause test failures.</td>
<td>No Fix (OS/API issue)</td>
<td>25</td>
</tr>
<tr>
<td>200989</td>
<td></td>
<td>VBIOS</td>
<td>GHOST.exe fails on US15W with Machine Check Error.</td>
<td>No Fix (Application defect)</td>
<td>25</td>
</tr>
<tr>
<td>201008</td>
<td></td>
<td>WEPOS, Windows Vista, Windows XP</td>
<td>ACPI S3/S4 fails to work with screen saver on US15W.</td>
<td>No Fix (OS/API issue)</td>
<td>25</td>
</tr>
<tr>
<td>201041</td>
<td></td>
<td>Linux</td>
<td>3DMarkMobile ES 1.1 not rendering correctly on US15W.</td>
<td>No Fix (Third-party defect)</td>
<td>26</td>
</tr>
<tr>
<td>201046</td>
<td></td>
<td>Windows Vista</td>
<td>Microsoft Vista fails to boot or install fully on 915GV and 945G using IEGD VBIOS.</td>
<td>No Fix (Third-party defect)</td>
<td>26</td>
</tr>
<tr>
<td>201056</td>
<td></td>
<td>Linux</td>
<td>Rendered scaling - corrupted line on video/window when window is on top of video.</td>
<td>No Fix (Hardware limitation)</td>
<td>26</td>
</tr>
<tr>
<td>201071</td>
<td></td>
<td>Windows XP</td>
<td>After resuming from S4 the background is not drawn correctly.</td>
<td>No Fix (OS issue)</td>
<td>27</td>
</tr>
<tr>
<td>201163</td>
<td></td>
<td>Windows CE</td>
<td>CE Player cannot play MPEG1 on all platforms.</td>
<td>No Fix (Third-party defect)</td>
<td>27</td>
</tr>
<tr>
<td>ID</td>
<td>Driver Version</td>
<td>Package</td>
<td>Errata</td>
<td>Status</td>
<td>Page</td>
</tr>
<tr>
<td>--------</td>
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<td>----------------------------------------------------------------------</td>
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</tr>
<tr>
<td>201168</td>
<td>X</td>
<td>Linux</td>
<td>Some videos may hang when running on Ubuntu and US15W.</td>
<td>No Fix (Third-party defect)</td>
<td>27</td>
</tr>
<tr>
<td>201200</td>
<td>X</td>
<td>Linux</td>
<td>Video corruption and green lines issue on Rendered Scaling.</td>
<td>No Fix</td>
<td>27</td>
</tr>
<tr>
<td>201235</td>
<td>X</td>
<td>Windows XP Embedded</td>
<td>Fields on GUI screens may not be visible on Windows XP Embedded.</td>
<td>No Fix (OS/API Issue)</td>
<td>28</td>
</tr>
<tr>
<td>201236</td>
<td>X</td>
<td>Linux</td>
<td>Secondary overlay causes a grey box in DJH and panned clone configuration on Q45 and GM45.</td>
<td>No Fix (Hardware limitation)</td>
<td>28</td>
</tr>
<tr>
<td>201270</td>
<td>X</td>
<td>Linux</td>
<td>Overlay corrupted green box in clone configuration persists even when switching to single mode on Q45 and GM45.</td>
<td>No Fix (Hardware defect)</td>
<td>28</td>
</tr>
<tr>
<td>201297</td>
<td>X</td>
<td>WEPOS, Windows XP, Windows eXP</td>
<td>Playing video with audio enabled on US15W may trigger CyberLink PowerDVD 8.0 player to use software decode.</td>
<td>No Fix (Third-party defect)</td>
<td>29</td>
</tr>
<tr>
<td>201304</td>
<td>X</td>
<td>Windows XP</td>
<td>Partial clipping on primary display becomes black and flickers on GM45 and Q45 chipsets.</td>
<td>No Fix</td>
<td>29</td>
</tr>
<tr>
<td>201307</td>
<td>X</td>
<td>Linux</td>
<td>System unable to wake up from STANDBY S1/S3 state on 915GV/GM965 using Fedora 7 or Fedora 10.</td>
<td>No Fix (OS/API issue)</td>
<td>29</td>
</tr>
<tr>
<td>201331</td>
<td>X</td>
<td>Windows XP</td>
<td>Video playback of advanced profile interlaced VC1 clips displays corruption due to Microsoft codec reporting incorrect inter-frame CBP on US15W/VP.</td>
<td>No Fix (Third-party defect)</td>
<td>30</td>
</tr>
<tr>
<td>201360</td>
<td>X</td>
<td>Linux</td>
<td>When video is closed mid way and then restarted, it exhibits tearing on US15W.</td>
<td>No Fix (Third-party defect)</td>
<td>30</td>
</tr>
<tr>
<td>201365</td>
<td>X</td>
<td>Windows CE</td>
<td>Screen flickering occurs when executing the donuts.exe 3D application on US15W running Windows CE 6.0.</td>
<td>No Fix (Third-party defect)</td>
<td>30</td>
</tr>
<tr>
<td>201369</td>
<td>X</td>
<td>Windows XP</td>
<td>US15W will not boot with CH7308 ADD2 card.</td>
<td>No Fix (Third-party defect)</td>
<td>30</td>
</tr>
<tr>
<td>201370</td>
<td>X</td>
<td>Windows XP</td>
<td>Rectangle draw speed drops after running DirectDraw* on US15 chipsets.</td>
<td>No Fix</td>
<td>31</td>
</tr>
<tr>
<td>201383</td>
<td>X</td>
<td>Linux</td>
<td>VC-1 video clips with multiple sequence headers may halt the system on US15W running Linux.</td>
<td>No Fix (Third-party defect)</td>
<td>31</td>
</tr>
<tr>
<td>201384</td>
<td>X</td>
<td>Linux</td>
<td>Using UMC Player, pixel corruption occurs within first 1 to 5 seconds for VC-1 720p and 1080p HBB video playback on US15W running Linux.</td>
<td>No Fix (Third-party defect)</td>
<td>32</td>
</tr>
<tr>
<td>201419</td>
<td>X</td>
<td>Windows XP</td>
<td>H.264+PDVD8 across two screens in extended mode with partial clipping causes system lag on US15W running Windows XP.</td>
<td>No Fix (Third-party defect)</td>
<td>32</td>
</tr>
<tr>
<td>201430</td>
<td>X</td>
<td>Linux, Moblin</td>
<td>Minor jerk during playback of H264 video in Linux VA.</td>
<td>No Fix (Third-party defect)</td>
<td>32</td>
</tr>
</tbody>
</table>
Table 4. **Errata (Sheet 5 of 7)**

<table>
<thead>
<tr>
<th>ID</th>
<th>Driver Version</th>
<th>Package</th>
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<th>Status</th>
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</tr>
</thead>
<tbody>
<tr>
<td>201431</td>
<td>10.3.1</td>
<td>Linux</td>
<td>Unable to play progressive segmented frame VC-1 videos on US15W running Linux.</td>
<td>No Fix (Third-party defect)</td>
<td>32</td>
</tr>
<tr>
<td>201449</td>
<td>X</td>
<td>Linux</td>
<td>All the icons on Gnome desktop may disappear after startx in 16-bit mode test.</td>
<td>No Fix (Third-party defect)</td>
<td>33</td>
</tr>
<tr>
<td>201465</td>
<td>X</td>
<td>Windows XP</td>
<td>Slow performance in applications when in rotated mode on US15W.</td>
<td>Plan Fix</td>
<td>33</td>
</tr>
<tr>
<td>201478</td>
<td>X</td>
<td>Windows CE</td>
<td>Screen flickering occurs while launching the 3D program called &quot;ddx4.exe&quot; on Windows CE.</td>
<td>No Fix (Third-party defect)</td>
<td>33</td>
</tr>
<tr>
<td>201479</td>
<td>X</td>
<td>Linux</td>
<td>Running Xtest under Fedora 10 causes two modules named &quot;acpid&quot; and &quot;rsyslogd&quot; to hang after Xtest completes on Gen3 and Gen4 chipset-based platforms.</td>
<td>No Fix (Third-party defect)</td>
<td>33</td>
</tr>
<tr>
<td>201483</td>
<td>X</td>
<td>Windows CE</td>
<td>Screen flicker while pausing and then resuming play during the H.264 movie playback.</td>
<td>No Fix (Hardware limitation)</td>
<td>34</td>
</tr>
<tr>
<td>201497</td>
<td>X</td>
<td>Windows CE</td>
<td>US15W performance slow when flip is enabled.</td>
<td>No Fix (Hardware limitation)</td>
<td>34</td>
</tr>
<tr>
<td>201499</td>
<td>X</td>
<td>Windows CE</td>
<td>Stretch blit performance is low with Windows CE compared to XP on US15W.</td>
<td>No Fix (OS/API issue)</td>
<td>34</td>
</tr>
<tr>
<td>201508</td>
<td>X</td>
<td>Windows XP</td>
<td>On Windows XP, 3DMark06 Batch Size Tests presents black screen on Intel® System Controller Hub US15W.</td>
<td>No Fix (OS/API issue)</td>
<td>34</td>
</tr>
<tr>
<td>201513</td>
<td>X</td>
<td>Linux, vBIOS, Windows CE</td>
<td>Unable to turn on TV out via CH7022 SDTV/HDTV Encoder on GM965.</td>
<td>No Fix (Hardware defect)</td>
<td>35</td>
</tr>
<tr>
<td>201530</td>
<td>X</td>
<td>Windows XP Embedded</td>
<td>The fonts for the prompt menu for IEGD installation/uninstallation is invisible on US15W running Windows XP.</td>
<td>No Fix (OS/API issue)</td>
<td>35</td>
</tr>
<tr>
<td>201535</td>
<td>X</td>
<td>Windows Vista</td>
<td>DirectX 7/8 application freeze after wake up from ACPI S1, S3 and S4.</td>
<td>No Fix (Application defect)</td>
<td>35</td>
</tr>
<tr>
<td>201536</td>
<td>X</td>
<td>Linux</td>
<td>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.</td>
<td>No Fix (Third-party defect)</td>
<td>35</td>
</tr>
<tr>
<td>201544</td>
<td>X</td>
<td>Windows CE</td>
<td>IRQ conflict with IEGD and ethernet device with Windows CE on Intel® System Controller Hub US15W.</td>
<td>No Fix (Not a defect)</td>
<td>36</td>
</tr>
<tr>
<td>201582</td>
<td>X</td>
<td>Windows XP</td>
<td>Both 3DMarkMobile ES 2.0/1.1 not rendering properly on US15W and causes segfault.</td>
<td>Plan Fix</td>
<td>36</td>
</tr>
<tr>
<td>201589</td>
<td>X</td>
<td>Windows CE</td>
<td>Both 3DMarkMobile ES 2.0/1.1 not rendering properly on US15W and causes segfault.</td>
<td>No Fix (OS/API issue)</td>
<td>36</td>
</tr>
<tr>
<td>201598</td>
<td>X</td>
<td>Linux</td>
<td>Screen corruption occurs in 1280x1024 resolution using Linux Fedora 10 on Q35.</td>
<td>Plan Fix</td>
<td>37</td>
</tr>
<tr>
<td>201603</td>
<td>X</td>
<td>Linux</td>
<td>Black line(s) appear after right-clicking on open application window when flipping is enabled with Linux Ubuntu 8.04.1 on US15W.</td>
<td>No Fix (OS/API issue)</td>
<td>37</td>
</tr>
</tbody>
</table>
### Table 4. Errata (Sheet 6 of 7)

<table>
<thead>
<tr>
<th>ID</th>
<th>Driver Version</th>
<th>Package</th>
<th>Errata</th>
<th>Status</th>
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</tr>
</thead>
<tbody>
<tr>
<td>201606</td>
<td>10.3.1</td>
<td>Windows CE</td>
<td>Corruption found when running CEPlayer and playing WMV file on Windows CE 6 with April 2009 patch.</td>
<td>No Fix (Third-party defect)</td>
<td>37</td>
</tr>
<tr>
<td>201609</td>
<td></td>
<td>Moblin</td>
<td>Clutter &quot;test-fbo&quot; application fails to create an off screen Frame Buffer Object (FBO) under Moblin.</td>
<td>No Fix (Third-party defect)</td>
<td>38</td>
</tr>
<tr>
<td>201618</td>
<td></td>
<td>Windows eXP</td>
<td>MPEG2 and H.264 Video Clips played back using PowerDVD8 cause blanked screen using Windows XP Embedded.</td>
<td>Resolved with new version of CyberLink PowerDVD8 application and update file.</td>
<td>38</td>
</tr>
<tr>
<td>201634</td>
<td></td>
<td>Windows XP</td>
<td>Windows Presentation Foundation (WPF) 3.5 (.net 3.5 SP1) application runs slowly under Windows XP on US15W and with D3D acceleration on.</td>
<td>Third party defect/Resolved</td>
<td>39</td>
</tr>
<tr>
<td>201652</td>
<td></td>
<td>Linux</td>
<td>Render Scaling/Centering fails when changing display modes via the (Ctrl + Alt + +) keystroke under Fedora 7.</td>
<td>Plan Fix</td>
<td>39</td>
</tr>
<tr>
<td>201665</td>
<td></td>
<td>Windows XP</td>
<td>VMR9 render device with IEGD 10.1 for Windows XP not enabling hardware acceleration for video decoding and preventing overlaying of text and buttons over video.</td>
<td>Plan Fix</td>
<td>39</td>
</tr>
<tr>
<td>201667</td>
<td></td>
<td>Windows CE</td>
<td>OpenGL ES test application with alpha blending hangs for several seconds and resumes again using IEGD 10.1.</td>
<td>No Fix (OS/API Issue)</td>
<td>40</td>
</tr>
<tr>
<td>201673</td>
<td></td>
<td>Moblin</td>
<td>US15W system hangs when running Moblin with Tegris game above 640x480 resolution.</td>
<td>No Fix (Third-party defect)</td>
<td>40</td>
</tr>
<tr>
<td>201800</td>
<td></td>
<td>Linux, Moblin, Ubuntu Hardy 8.04.1</td>
<td>Flickering on X when running resolution of 1920x1080 on 50Hz and 60 Hz flat panels on Intel® System Controller Hub US15W.</td>
<td>Plan Fix in upcoming IEGD 10.3.x Hotfix</td>
<td>40</td>
</tr>
<tr>
<td>201805</td>
<td></td>
<td>Windows XP</td>
<td>3DMarkMobile ES 2.0 missing extension &quot;wglSwapIntervalEXT&quot; under Windows XP on US15W.</td>
<td>No Fix</td>
<td>40</td>
</tr>
<tr>
<td>201834</td>
<td></td>
<td>Windows XP</td>
<td>On Windows XP - Java RIA demo application (Snowman) intermittently hangs or crashes on Intel® System Controller Hub US15W.</td>
<td>Plan Fix</td>
<td>41</td>
</tr>
<tr>
<td>201861</td>
<td></td>
<td>Windows XP</td>
<td>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.</td>
<td>No Fix (Third-party defect)</td>
<td>41</td>
</tr>
<tr>
<td>201891</td>
<td></td>
<td>Windows Vista</td>
<td>ACPI will not wake up from S1 and S3 Modes on Intel Atom 400 and 500 series with GMA 3150 Graphics Media Accelerator.</td>
<td>No Fix (Third-party defect)</td>
<td>41</td>
</tr>
<tr>
<td>201917</td>
<td></td>
<td>VBIOS</td>
<td>IEGD VBIOS booting slowly on customer system with LVDS as compared with GMA VBIOS on Intel® System Controller Hub US15W.</td>
<td>Plan Fix</td>
<td>41</td>
</tr>
<tr>
<td>202012</td>
<td></td>
<td>Windows XP</td>
<td>On Windows XP screen flashes with IBASE I888 system when resolution is above 1366x768 on Intel® System Controller Hub US15W.</td>
<td>Plan Fix</td>
<td>42</td>
</tr>
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</table>
## Table 4. Errata (Sheet 7 of 7)

<table>
<thead>
<tr>
<th>ID</th>
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<th>Package</th>
<th>Errata</th>
<th>Status</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>202064</td>
<td>10.3.1</td>
<td>VBIOS, Windows XP</td>
<td>Forced blue screen distorts text at the top of the screen after Windows system performs the crash dump using Intel® 945GM.</td>
<td>Fixed with IEGD 10.1.3 Hotfix</td>
<td>42</td>
</tr>
<tr>
<td>202112</td>
<td></td>
<td>Windows XP</td>
<td>Windows Presentation Foundation (WPF) content experiences slow performance (example: cube animation) on platforms based on US15W Windows XP and XP Embedded and based on Intel® System Controller Hub US15W.</td>
<td>Resolved with IEGD version 10.3.1.</td>
<td>42</td>
</tr>
<tr>
<td>202117</td>
<td></td>
<td>Windows XP</td>
<td>Screen corrupted after performed flip combination with IEGD.</td>
<td>Plan Fix</td>
<td>42</td>
</tr>
<tr>
<td>202094</td>
<td></td>
<td>Moblin</td>
<td>Screen turns green between video clip transition on Intel® System Controller Hub US15W/WP.</td>
<td>Plan Fix</td>
<td>43</td>
</tr>
<tr>
<td>202096</td>
<td></td>
<td>Moblin</td>
<td>Overlay test application failing with VAAPI Video Acceleration on Intel® System Controller Hub US15W.</td>
<td>Plan Fix</td>
<td>43</td>
</tr>
<tr>
<td>2195903</td>
<td></td>
<td>Windows XP</td>
<td>The system may hang after turning on the IEGD as secondary display when primary video device is set to External PCI on Intel 915GV.</td>
<td>No Fix (Third-party defect)</td>
<td>43</td>
</tr>
<tr>
<td>2329044</td>
<td></td>
<td>Other</td>
<td>Backlight timed events are incorrectly timed (delayed) if the VBIOS I/O cycle is not 1ms.</td>
<td>No Fix (Third-party defect)</td>
<td>43</td>
</tr>
<tr>
<td>2441156</td>
<td></td>
<td>Windows CE</td>
<td>Incorrect resolution on DVI display when 640x480 resolution is set and in Clone and Twin configuration in Windows CE.</td>
<td>No Fix (Hardware defect)</td>
<td>44</td>
</tr>
<tr>
<td>2483055</td>
<td></td>
<td>Windows XP</td>
<td>Possible Display Corruption on National Semi 2501 when it is configured as secondary display on 640x 480 mode.</td>
<td>No Fix (Third-party defect)</td>
<td>44</td>
</tr>
<tr>
<td>2549997</td>
<td></td>
<td>Linux</td>
<td>Internal TV screen may black out or flicker after several rapid changes of the Standard Definition TV format.</td>
<td>No Fix (Hardware limitation)</td>
<td>44</td>
</tr>
<tr>
<td>2593149</td>
<td></td>
<td>Windows eXP</td>
<td>On Windows XPe, EGDGUI information not formatted properly in Display Properties Tab on Intel 945GME.</td>
<td>No Fix (Working as expected)</td>
<td>44</td>
</tr>
<tr>
<td>3364329</td>
<td></td>
<td>Windows CE</td>
<td>PPLANE windows corrupted once system based on Intel® Atom™ Processor 400 and 500 Series (GMA3150 core) wakes up from either S3 or S4.</td>
<td>No Fix (Not a defect)</td>
<td>45</td>
</tr>
</tbody>
</table>
Errata

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

   Reference #: 200156
   Driver: Graphics
   Version: 10.3.1
   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: 10.3.1
   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 (OS/API issue)

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: 10.3.1
   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:** 10.3.1  
   **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:** 10.3.1  
   **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:** 10.3.1  
   **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: 10.3.1  
   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: 10.3.1  
   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: 10.3.1  
   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. **VC1 Video cannot be played on LVDS in extended mode using Windows Media Player* and software decode.**

    Reference #: 200624  
    Driver: Graphics  
    Version: 10.3.1  
    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: 10.3.1  
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: 10.3.1  
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 (OS/API issue)

13. **Windows Media Player* 10 may cause failure to play MPEG2, H.264, and VC1 video in PowerDVD8 player.**

Reference #: 200672  
Driver: Graphics  
Version: 10.3.1  
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 VC1 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)

Reference #: 200679
Driver: Graphics
Version: 10.3.1
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: 10.3.1
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. In certain situations setting the EDID option to use edid (1) may fail to use the EDIDAvail setting.

Reference #: 200697
Driver: Graphics
Version: 10.3.1
Package: Linux
Resolution: Sighting appears on Linux with US15. The EDIDAvailable option may be ignored when EDID reads are enabled. The driver may only be using the EDIDNotAvailable option in this case. Fix to be determined in a future release.
Status: Plan Fix

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

Reference #: 200707
Driver: Graphics
Version: 10.3.1
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)
18. **Tearing seen when playing movie with XVBlend on Intel® System Controller Hub US15W.**

Reference #: 200770  
Driver: Graphics  
Version: 10.3.1  
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)

19. **xegl demo es1_msaas failed to run on X-Server 1.3.**

Reference #: 200806  
Driver: Graphics  
Version: 10.3.1  
Package: Linux  
Resolution: To run xegl demo es1_msaas user will need to use X-Server 1.5 as X-Server 1.3 does not support this.  
Status: No Fix (OS/API issue)

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

Reference #: 200819  
Driver: Graphics  
Version: 10.3.1  
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)

21. **3DMarkMobile ES 2.0 is not rendering correctly and will segfault on US15W.**

Reference #: 200820  
Driver: Graphics  
Version: 10.3.1  
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).
22. Running 3D application on Microsoft Vista* may cause the side bar on
desktop to flicker.

Reference #: 200824
Driver: Graphics
Version: 10.3.1
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)

23. PDVD8 screen blank playing H.264 and VC1 video with rotated display.

Reference #: 200832
Driver: Graphics
Version: 10.3.1
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)

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

Reference #: 200850
Driver: Graphics
Version: 10.3.1
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)

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

Reference #: 200876
Driver: Graphics
Version: 10.3.1
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)
26. **System will either restart or crash/halt after wake up from SUSPEND S3 state.**

Reference #: 200898  
Driver: Graphics  
Version: 10.3.1  
Package: Linux, Moblin  
Resolution: None.  
Status: Plan Fix in upcoming 10.3.x Hot fix release

27. **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: 10.3.1  
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)

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

Reference #: 200942  
Driver: Graphics  
Version: 10.3.1  
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

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

Reference #: 200946  
Driver: Graphics  
Version: 10.3.1  
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)
<table>
<thead>
<tr>
<th>Reference #</th>
<th>Driver</th>
<th>Version</th>
<th>Package</th>
<th>Resolution</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>200947</td>
<td>Graphics</td>
<td>10.3.1</td>
<td>Windows XP</td>
<td>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.</td>
<td>No Fix (OS/API issue)</td>
</tr>
<tr>
<td>200948</td>
<td>Graphics</td>
<td>10.3.1</td>
<td>Windows XP</td>
<td>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.</td>
<td>No Fix (Third-party defect)</td>
</tr>
<tr>
<td>200954</td>
<td>Graphics</td>
<td>10.3.1</td>
<td>Windows XP</td>
<td>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.</td>
<td>No Fix (OS/API issue)</td>
</tr>
<tr>
<td>200974</td>
<td>Video BIOS</td>
<td>10.3.1</td>
<td>VBIOS, Windows XP</td>
<td>There appears to be an issue with some BIOS with add-in PCIe video cards in the first PCIe slot. The vBIOS and driver cannot correct this issue. Please contact your BIOS provider.</td>
<td>No Fix (Third-party defect)</td>
</tr>
</tbody>
</table>
34. **Pixel Shaders version 2.0 on US15W may cause test failures.**

   Reference #: 200981
   Driver: Graphics
   Version: 10.3.1
   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)

35. **GHOST.exe fails on US15W with Machine Check Error.**

   Reference #: 200989
   Driver: Graphics
   Version: 10.3.1
   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)

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

   Reference #: 201008
   Driver: Graphics
   Version: 10.3.1
   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)
37. **3DMarkMobile ES 1.1 not rendering correctly on US15W.**

Reference #: 201041
Driver: Graphics
Version: 10.3.1
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)

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

Reference #: 201046
Driver: Video BIOS
Version: 10.3.1
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)

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

Reference #: 201056
Driver: Graphics
Version: 10.3.1
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)
40. **After resuming from S4 the background is not drawn correctly.**

Reference #: 201071  
Driver: Graphics  
Version: 10.3.1  
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)

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

Reference #: 201163  
Driver: Graphics  
Version: 10.3.1  
Package: Windows CE  
Resolution: This issue is a third-party application defect in the Microsoft MPEG-1 codec.  
Status: No Fix (Third-party defect)

42. **Some videos may hang when running on Ubuntu and US15W.**

Reference #: 201168  
Driver: Graphics  
Version: 10.3.1  
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)

43. **Video corruption and green lines issue on Rendered Scaling.**

Reference #: 201200  
Driver: Graphics  
Version: 10.3.1  
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
44. **Fields on GUI screens may not be visible on Windows XP Embedded.**

   Reference #: 201235  
   Driver: Graphics  
   Version: 10.3.1  
   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)

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

   Reference #: 201236  
   Driver: Graphics  
   Version: 10.3.1  
   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)

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

   Reference #: 201270  
   Driver: Graphics  
   Version: 10.3.1  
   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)
47. **Playing video with audio enabled on US15W may trigger CyberLink PowerDVD 8.0 player to use software decode.**

Reference #: 201297  
Driver: Graphics  
Version: 10.3.1  
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)

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

Reference #: 201304  
Driver: Graphics  
Version: 10.3.1  
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

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

Reference #: 201307  
Driver: Graphics  
Version: 10.3.1  
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)
50. Video playback of advanced profile interlaced VC1 clips displays corruption due to Microsoft codec reporting incorrect inter-frame CBP on US15W/WP.

Reference #: 201331
Driver: Graphics
Version: 10.3.1
Package: Windows XP
Resolution: This is an MS codec issue. Please contact Microsoft for more details.
Status: No Fix (Third-party defect)

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

Reference #: 201360
Driver: Graphics
Version: 10.3.1
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: 10.3.1
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: 10.3.1
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 US15 chipsets.**

Reference #: 201370
Driver: Graphics
Version: 10.3.1
Package: Windows XP
Resolution: This is a known issue with current IEGD interrupt mechanism on US15 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: 10.3.1
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 single 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: 10.3.1
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. 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: 10.3.1
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 cannot be fixed by the video driver.
Status: No Fix (Third-party defect)

58. Minor jerk during playback of H264 video in Linux VA.

Reference #: 201430
Driver: Graphics
Version: 10.3.1
Package: Linux, Moblin
Resolution: Invoke vaSyncSurface backend (iegd_sync_surface) within iegd_begin_picture.
Status: No Fix (Third-party defect)

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

Reference #: 201431
Driver: Graphics
Version: 10.3.1
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)
60. All the icons on Gnome desktop may disappear after startx in 16-bit mode test.
Reference #: 201449
Driver: Graphics
Version: 10.3.1
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)

61. Slow performance in applications when in rotated mode on US15W.
Reference #: 201465
Driver: Graphics
Version: 10.3.1
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

62. Screen flickering occurs while launching the 3D program called “ddex4.exe” on Windows CE.
Reference #: 201478
Driver: Graphics
Version: 10.3.1
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)

63. 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: 10.3.1
Package: Linux
Resolution: A defect exists in one of the modules in Linux Fedora 10 that prevents X-Server to start when an attempt is made to run StartX. Workaround is to restart the PC to continue StartX.
Status: No Fix (Third-party defect)
64. Screen flicker while pausing and then resuming play during the H.264 movie playback.

Reference #: 201483
Driver: Graphics
Version: 10.3.1
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)

65. US15W performance slow when flip is enabled.

Reference #: 201497
Driver: Graphics
Version: 10.3.1
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)

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

Reference #: 201499
Driver: Graphics
Version: 10.3.1
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)

67. On Windows XP, 3DMark06 Batch Size Tests presents black screen on Intel® System Controller Hub US15W.

Reference #: 201508
Driver: Graphics
Version: 10.3.1
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)
68. **Unable to turn on TV out via CH7022 SDTV/HDTV Encoder on GM965.**

Reference #: 201513  
Driver: Graphics  
Version: 10.3.1  
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 Chrontel for a hardware-based solution and recommendations.

Status: No Fix (Hardware defect)

69. **The fonts for the prompt menu for IEGD installation/uninstallation is invisible on US15W running Windows XP.**

Reference #: 201530  
Driver: Graphics  
Version: 10.3.1  
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)

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

Reference #: 201535  
Driver: Graphics  
Version: 10.3.1  
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)

71. **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: 10.3.1  
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)
72. IRQ conflict with IEGD and ethernet device with Windows CE on Intel® System Controller Hub US15W.

Reference #: 201544
Driver: Graphics
Version: 10.3.1
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"
; US15 is the only chipset supporting interrupts
"Prefix"="IGD"
"IsrDll"="isr_iegd.dll"
"IsrHandler"="isr_handler"
```

Status: No Fix (Not a defect)

73. 3DMarkMobile ES 2.0 may not render properly on US15W and causes segfault.

Reference #: 201582
Driver: Graphics
Version: 10.3.1
Package: Windows XP
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. Internal investigations have shown an inability to find any errors within the driver code. At this time we are attempting to verify 3DMarkMobile ES 2.0 on the latest release version of IEGD. This appears to be a Futuremark defect. Please contact Futuremark for more details.

Status: Plan Fix

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

Reference #: 201589
Driver: Graphics
Version: 10.3.1
Package: Windows CE
Resolution: Add this registry to drop the process priority of the Windows CE video renderer

```
[HKL\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)
75. **Screen corruption occurs in 1280x1024 resolution using Linux Fedora 10 on Q35.**

Reference #: 201598  
Driver: Graphics  
Version: 10.3.1  
Package: Linux  
Resolution: Change the active resolution from 1280x1024 to another resolution or use Fedora 7 with 1280x1024 active resolution.  
Status: Plan Fix

76. **Black line(s) appear after right-clicking on open application window when flipping is enabled with Linux Ubuntu 8.04.1 on US15W.**

Reference #: 201603  
Driver: Graphics  
Version: 10.3.1  
Package: Linux  
Resolution: For Linux Ubuntu 8.04.1 on US15W, refrain from using flipping or use a different supported Linux release (Moblin 2.1 Fedora 7 or Fedora 10).  
Status: No Fix (OS/API issue)

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

Reference #: 201606  
Driver: Graphics  
Version: 10.3.1  
Package: Windows CE  
Resolution: 1) Copy the wmvdmod.lib and wmvdmod.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: 10.3.1  
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/](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: 10.3.1  
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&nPid=1&nProdVerId=214](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:** 10.3.1  
**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:** 10.3.1  
**Package:** Linux  
**Resolution:** Under investigation. No planned work around at this time.  
**Status:** Plan Fix

### 82. VMR9 render device with IEGD 10.1 for Windows XP not enabling hardware acceleration for video decoding and preventing overlaying of text and buttons over video.

**Reference #:** 201665  
**Driver:** Graphics  
**Version:** 10.3.1  
**Package:** Windows XP  
**Resolution:** Use VMR7 instead of VMR9. VMR7 can be used with IEGD FB_Blend functionality in order to overlay text/buttons over a video. For more information please check information found in the IEGD User's Guide or contact your field representative for more details.  
**Status:** Plan Fix
<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>83.</strong></td>
<td><strong>OpenGL ES test application with alpha blending hangs for several seconds and resumes again using IEGD 10.1.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference #:</td>
<td>201667</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driver:</td>
<td>Graphics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Version:</td>
<td>10.3.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Package:</td>
<td>Windows CE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resolution:</td>
<td>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.</td>
<td></td>
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</tr>
<tr>
<td>Status:</td>
<td>No Fix (OS/API Issue)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>84.</strong></td>
<td><strong>US15W system hangs when running Moblin with Tegris game above 640x480 resolution.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference #:</td>
<td>201673</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driver:</td>
<td>Graphics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Version:</td>
<td>10.3.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Package:</td>
<td>Moblin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resolution:</td>
<td>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.</td>
<td></td>
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<tr>
<td>Status:</td>
<td>No Fix (Third-party defect)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>85.</strong></td>
<td><strong>Flickering on X when running resolution of 1920x1080 on 50Hz and 60 Hz flat panels on Intel® System Controller Hub US15W.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference #:</td>
<td>201800</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driver:</td>
<td>Graphics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Version:</td>
<td>10.3.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Package:</td>
<td>Linux, Moblin, Ubuntu Hardy 8.04.1</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Resolution:</td>
<td>FIFO settings need to be adjusted with a new IEGD driver. Fine tune adjustments to the Display Arbitration Control, FIFO Watermark and Burst Length Control; other registers are required. Intel is conducting further investigation into this issue to determine best register values that eliminate flickering on flat panels at 1920x1080 resolution, 50 Hz and 60 Hz vertical refresh rate.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Status:</td>
<td>Plan Fix in upcoming IEGD 10.3.x Hotfix</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>86.</strong></td>
<td><strong>3DMarkMobile ES 2.0 missing extension “wglSwapIntervalEXT” under Windows XP on US15W.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference #:</td>
<td>201805</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driver:</td>
<td>3D Graphics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Version:</td>
<td>10.3.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Package:</td>
<td>Windows XP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resolution:</td>
<td>None.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Status:</td>
<td>No Fix</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
87. **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: 10.3.1  
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

88. **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: 10.3.1  
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)

89. **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: 10.3.1  
Package: Windows Vista  
Resolution: None.  
Status: No Fix (Third-party defect)

90. **IEGD VBIOS booting slowly on customer system with LVDS as compared with GMA VBIOS on Intel® System Controller Hub US15W.**

Reference #: 201917  
Driver: VBIOS  
Version: 10.3.1  
Package: VBIOS  
Resolution: None.  
Status: Plan Fix
91. **On Windows XP screen flashes with IBASE I888 system when resolution is above 1366x768 on Intel® System Controller Hub US15W.**

Reference #: 202012  
Driver: Graphics  
Version: 10.3.1  
Package: Windows XP  
Resolution: Run at resolutions 1366x768 or below.  
Status: Plan Fix

92. **Forced blue screen distorts text at the top of the screen after Windows system performs the crash dump using Intel® 945GM.**

Reference #: 202064  
Driver: VBIOS  
Version: 10.3.1  
Package: VBIOS, Windows XP  
Resolution: This occurs only if LVDS is enabled in Windows prior to the Blue Screen. Single (LVDS), Clone and Extended (LVDS+CRT, CRT+LVDS) modes all fail in same manner.  
Status: Fixed with IEGD 10.1.3 Hotfix

93. **Windows Presentation Foundation (WPF) content experiences slow performance (example: cube animation) on platforms based on US15W Windows XP and XP Embedded and based on Intel® System Controller Hub US15W.**

Reference #: 202112  
Driver: Graphics  
Version: 10.3.1  
Package: Windows XP  
Resolution: A new selection called “Disable WPF Hardware Acceleration: Yes/No” can be found in IEGD version 10.3.1 CED regarding this WPF functionality. Yes = Disabling WPF Hardware Acceleration will be the default setting. Please try your application with this workaround and without it to see which mode works best for your specific application.  
Status: Resolved with IEGD version 10.3.1.

94. **Screen corrupted after performed flip combination with IEGD.**

Reference #: 202117  
Driver: Graphics  
Version: 10.3.1  
Package: Windows XP  
Resolution: None.  
Status: Plan Fix
95. **Screen turns green between video clip transition on Intel® System Controller Hub US15W/WP.**

Reference #: 202094
Driver: Graphics
Version: 10.3.1
Package: Moblin
Resolution: Do not set MPLAYER_VAAPI_REINIT_ALWAYS (default 0) or set MPLAYER_VAAPI_REINIT_ALWAYS=0. This will not cause surfaces to be destroyed during transition between video clips.
Status: Plan Fix

96. **Overlay test application failing with VAAPI Video Acceleration on Intel® System Controller Hub US15W.**

Reference #: 202096
Driver: Graphics
Version: 10.3.1
Package: Moblin
Resolution: None.
Status: Plan Fix

97. **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: 10.3.1
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)

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

Reference #: 2329044
Driver: VBIOS
Version: 10.3.1
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)
99. Incorrect resolution on DVI display when 640x480 resolution is set and in Clone and Twin configuration in Windows CE.

Reference #: 2441156
Driver: Graphics
Version: 10.3.1
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)

100. Possible Display Corruption on National Semi 2501 when it is configured as secondary display on 640x480 mode.

Reference #: 2483055
Driver: Graphics
Version: 10.3.1
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)

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

Reference #: 2549997
Driver: Graphics
Version: 10.3.1
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)

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

Reference #: 2593149
Driver: Graphics
Version: 10.3.1
Package: Windows XPe
Resolution: This issue was resolved as user error. Four fonts (Serife, serif, ssersife & ssersiff) 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)
103. **PPLANE windows corrupted once system based on Intel® Atom™ Processor 400 and 500 Series (GMA3150 core) wakes up from either S3 or S4.**

Reference #: 3364329  
Driver: Graphics  
Version: 10.3.1  
Package: Windows CE

**Resolution:**  
Primary recommendation: Customers using an Intel® Atom™ Processor 400 and 500 Series should replace their default system BIOS with IEGD VBIOS 1550 and install IEGD 10.3.1 Gold release (driver version #1550) normally. They must install IEGD VBIOS together with the IEGD driver. Pairing the recommended VBIOS #1550 with IEGD 10.3.1 Gold release will allow Intel® Atom™ Processor 400 and 500 Series-based systems to wake up from S3 and S4 without any corruption on the screen or desktop.

If the default system BIOS is GMA VBIOS and run together with IEGD driver build 1550 then screen corruption could occur when waking up from either S3 or S4. The failure ONLY happens when running concurrently an application using PPlane along with video playback and WinACPI on S3/S4).

Secondary recommendation: The problem can be eliminated by avoiding usage of the following registry keys:

```
[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"  
; US15 is the only chipset supporting interrupts  
"Prefix"="IGD"  
"IsrDll"="isr_iegd.dll"  
"IsrHandler"="isr_handler"
```

**Status:** No Fix (Not a defect)
Issues Closed in Version 10.3.1

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

<table>
<thead>
<tr>
<th>ID</th>
<th>Package</th>
<th>Errata</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>201310</td>
<td>VBIOS</td>
<td>VBIOS standard timings not correct for VGA 640x480 VGA graphics mode 12h.</td>
<td>Fixed</td>
</tr>
<tr>
<td>201358</td>
<td>Windows XP</td>
<td>Java application corruption at 90 degree, 180 degree and 270 degree rotation in either Single, Twin or Clone Display Mode.</td>
<td>Fixed</td>
</tr>
<tr>
<td>201415</td>
<td>Windows CE</td>
<td>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.</td>
<td>Resolved with IEGD version 10.2 Beta</td>
</tr>
<tr>
<td>201552</td>
<td>Linux, Moblin</td>
<td>System response slow or screen is blank or corrupted on Linux when switching between X and console text mode in Single and Clone Display Configurations on US15W.</td>
<td>Fixed</td>
</tr>
<tr>
<td>201565</td>
<td>Linux</td>
<td>&quot;XRANDR Extension not loaded&quot; Error prompted on xterm by port enabling/switching in Xinerama display mode using IEGDGUI.</td>
<td>Closed (Not a defect)</td>
</tr>
<tr>
<td>201686</td>
<td>Windows XP</td>
<td>HDCP copy protection does not function properly with CH7315 on Q45 under Windows XP causing Microsoft COPP to crash.</td>
<td>Fixed</td>
</tr>
<tr>
<td>201697</td>
<td>Windows XP</td>
<td>LVDS flashes/blinks when mode is changed from Clone to Extended or Extended to Clone.</td>
<td>Fixed</td>
</tr>
<tr>
<td>202019</td>
<td>Fedora, Windows XP</td>
<td>IEGD driver install results in black screen on VGA on Intel® Atom Processor 400 and 500 series with GMA 3150 Graphics Media Accelerator.</td>
<td>Fixed</td>
</tr>
<tr>
<td>2441300</td>
<td>Windows XP</td>
<td>Vertical lines may be seen in video playback or any other time (DirectDraw, Direct3D, ...) when display is rotated.</td>
<td>Closed (Not a defect)</td>
</tr>
<tr>
<td>201415</td>
<td>Windows CE</td>
<td>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.</td>
<td>Resolved with IEGD Version 10.2 Beta</td>
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