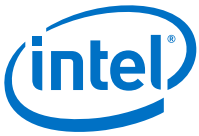
Intel® Embedded Media and Graphics Driver v36.15.0 (32-bit) & v37.15.0 (64-bit) for Intel® Atom™ Processor E3800 Product Family/ Intel® Celeron® Processor N2920/J1900 Windows* Release

User Guide

March 2014

Document Number: 541234



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Revision History

This document may have been updated since the release shown below. See http://edc.intel.com/Software/Downloads/ for the most recent version.

Date	Revision	Description
March 2014	003	Gold 2 release
January 2014	002	Gold release.
December 2013	001	Initial release.

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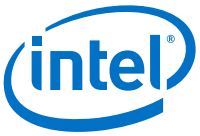

1.0 Introduction

The Intel® Embedded Media and Graphics Driver (Intel® EMGD) graphics driver suite is 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) chipset:

- Intel® Atom™ Processor E3800 Product Family/ Intel® Celeron® Processor N2920/ J1900 (Windows*)

Note: If you need support for a chipset that is not listed above but is in the same family as those listed, please first check for an appropriate version for download on the Intel® Embedded Design Center (http://www.intel.com/p/en_US/embedded/hwsw/software/emgd#download) or contact your Intel representative. Intel does not support other variants of video firmware that are not stated in the driver package release note or this user's guide.

The Intel® Embedded Media and Graphics Driver supports the following types of display devices:

- Analog CRT
- HDMI
- DisplayPort
- Embedded DisplayPort (eDP)

Intel® EMGD is designed to work with fixed-function systems, such as Point-of-Sale (POS) devices, ATMs, gaming devices, In-vehicle Information/Entertainment systems, etc. It can be configured to work with various hardware and software systems and supports Windows* operating systems, including embedded versions of these operating systems.

Note: **Please refer to product release notes for more details on Intel® EMGD supported features.**

1.1 Purpose

This manual provides information on both firmware and software, providing hardware design considerations, installation requirements, and static configuration options.

1.2 Intended Audience

This document is targeted at all platform and system developers 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, system control application developers, and end users.

1.3 Related Documents

The following documents provide additional information that may be useful when using the Intel® Embedded Media and Graphics Driver. Additional resources are available at http://www.intel.com/go/EMGD (http://edc.intel.com/Software/Downloads/EMGD/).

- *368119 - Intel® Graphics Media Accelerator - Binary Modification Program (BMP) User's Guide Revision 3.0 or above.*
  This document provides information on configuration of Video BIOS.
- *488363 - Intel® HD Graphics Media Accelerator - Binary Modification Program (BMP) User's Guide for GOP VBT Revision 0.9 or above.*
  This document provides information on configuration of GOP.
- 507988 - *Intel® HD Graphics Driver – Common User Interface (CUI) Supporting 4th Generation Intel® Core™ Processor Graphics - Software Product Specification (SPS)* - Rev. 1.4 or above.
  This document describes of all the CUI pages, features, and functions. *Intel® Media SDK Developer's Guide* (http://download-software.intel.com/sites/default/files/Intel_Media_Developers_Guide_0.pdf).
- *VESA BIOS Extensions/Display Data Channel Standard*
  This document provides information on the 4F VBE functions, which are supported by the Intel® Embedded Video BIOS.
- *VESA BIOS Extension (VBE) Core Functions Standard Version 3.0*
  Contains information on the VESA BIOS Extension (VBE) specification for standard software access to graphics display controllers that support resolutions, color depths, and framebuffer organizations beyond the VGA hardware standard.

Note: The last two documents above are available from http://www.vesa.org. Membership may be required to access these documents. Reproductions may also be available from elsewhere on the Internet.

1.4 Conventions

The following conventions are used throughout this document:

Boldface	Represents text that you type and text that appears on a screen.
Italics	Introduces new terms and titles of documents.
`Courier New`	Identifies the names of files, executable program names, and text that appears in a file.
Angle Brackets (< >)	Encloses variable values in syntax or value ranges that you must replace with actual values.

1.5 Acronyms and Terminology

The table below lists the acronyms and terminology used throughout this document:

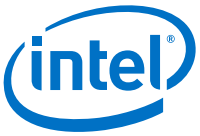

Table 1. Acronyms and Terminology (Sheet 1 of 2)

Term	Description
API	Application Programming Interface.
BDA	BIOS Data Area. A storage area that contains information about the current state of a display, including mode number, number of columns, cursor position, etc.
BIOS	Basic Input/Output System. The Intel® Embedded Media and Graphics Driver interacts with two BIOS systems: system BIOS and Video firmware (i.e., VBIOS, GOP, and EPOG).
BMP	BIOS Modification Program; allows customizing the data in VBT.
Clone Display Configuration	A type of display configuration that drives two display devices, each displaying the same content, but can have different resolutions and (independent) timings. Compare DIH Display Configuration.
Contrast Ratio	Contrast ratio is the measure of the difference between light and dark on a display. If the contrast is increased, the difference between light and dark is increased (i.e., something white will be very bright and something black will be very dark). Brightness and Contrast Controls differ in function between CRTs and LCDs.
DC	Display Configuration.
DP	Display Port.
DTD	Detailed Timing Descriptor. A set of timing values used for EDID-less devices.
EBDA	Extended BIOS Data Area. An interface that allows the system BIOS and Option ROMs to request access to additional memory.
EDID	Extended Display Identification Data. A VESA standard that allows the display device to send identification and capabilities information to the Intel® Embedded Media and Graphics Driver. Intel® EMGD reads all EDID data, including resolution and timing data, from the display, thus negating the need for configuring DTD data for the device.
EDID-less	A display that does not have the capability to send identification and timing information to the driver and requires DTD information to be defined in the driver.
eDP	Embedded Display Port
EFI	Extensible Firmware Interface.
eIA	Embedded Intel® Architecture.
EMI	Electromagnetic Interference.
ePOG	Embedded Pre-OS Graphics Driver
Extended Clone Mode	A feature that allows you to have different sized displays in Clone mode.
Framebuffer	A region of physical memory used to store and render graphics to a display.
GMA	Intel® Graphics Media Accelerator. Refers to both the graphics hardware in Intel chipsets as well as the desktop/mobile driver. The GMA driver is not intended for use in embedded applications.
GMS	Graphics Mode Select (stolen memory).
GOP	Graphics Output Protocol
HDCP	High-bandwidth Digital-Content Protection. A specification that uses the DVI interface. HDCP encrypts the transmission of digital content between the video source (transmitter) and the digital display (receiver).
HDMI	High-Definition Multimedia Interface, an uncompressed, all-digital, audio/video interface.
iDCT	Inverse Discrete Cosine Transformation (hardware feature).

Table 1. Acronyms and Terminology (Sheet 2 of 2)

Term	Description
LVDS	Low Voltage Differential Signaling. Used with flat panel displays, such as a laptop computer display.
Option ROM (OROM)	Code that is integrated with the system BIOS and resides on a flash chip on the motherboard. The Intel Embedded Video BIOS is an example of an option ROM.
OS	Operating System.
PCI	Peripheral Component Interface.
POST	Power On Self Test.
PWM	Pulse Width Modulation.
Reserved Memory	A region of physical memory in a Windows Embedded Compact 7 system set aside for BIOS, VBIOS, and graphics driver operations. Reserved memory can be configured for use by the operating system and other applications when not in use by the BIOS.
Saturation	Monitors and scanners are based on the “additive” color system using RGB, starting with black and then adding Red, Green, and Blue to achieve color. Saturation is the colorfulness of an area judged in proportion to its brightness. Full saturation of RGB gives the perception of white, and images are created that radiate varying amounts of RGB, or varying saturation of RGB.
SCS	Software Compliance Statement.
Single Display Configuration	A type of display configuration that supports one and only one display device.
SSC	Spread Spectrum Clock.
Stolen Memory	A region of physical memory (RAM) set aside by the system BIOS for input and output operations. The amount of stolen memory is configurable. Stolen memory is not accessible to the operating system or applications.
System BIOS	The standard BIOS used for basic input and output operations on PCs.
TOM	Top Of Memory.
TSR	Terminate and Stay Resident. A program that is loaded and executes in RAM, but when it terminates, the program stays resident in memory and can be executed again immediately without being reloaded into memory.
VBIOS	Video Basic Input Output System. A component of system BIOS that drives graphics input and output.
VBT	The Video BIOS Table (VBT) is a block of customizable platform-specific data used by the Video BIOS and device drivers such as Flat Panel Timings, OEM definable Mode Timing, GPIO pins, Clock, and more.
VESA	Video Electronics Standards Organization.
VGA	Video Graphics Array. A graphics display standard developed by IBM* that uses analog signals rather than digital signals.
VLD	Variable Length Decoding.
VMR	Video Mixing Render.
YUV	Informal, but imprecise reference to the video image format, Y'CbCr. The Y' component is luma, a nonlinear video quality derived from RGB data denoted without color. The chroma components, Cb and Cr, correspond nonlinearly with U and V as differences between the blue and luma, and between the red and luma, respectively.

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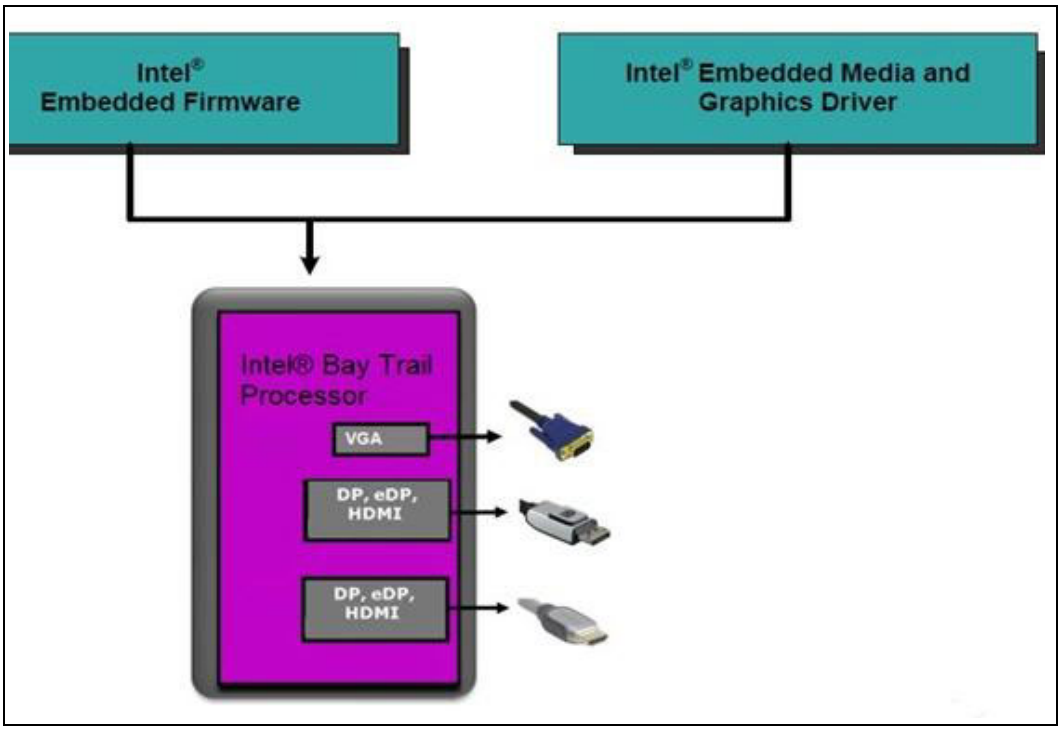
2.0 Architectural Overview

2.1 Introduction

The Intel® Embedded Media and Graphics Driver is composed of a runtime graphics driver and a video firmware component. (See the illustrations below.) Both the driver and video firmware (i.e., VBIOS, GOP, and EPOG) control the processor to perform display and render operations. The video firmware is predominantly leveraged by System BIOS during system boot, but is also used at runtime by the driver to handle full-screen text mode on the operating system(s).

Figure 1. Intel® Embedded Media and Graphics Driver



2.1.1 Display Options

The following section describes the types of displays and configurations supported by Intel® EMGD.

2.1.1.1 Types of Displays

The table below lists the types of displays supported by the Intel® Embedded Media and Graphics Driver.

Table 2. Types of Displays Supported

Display	Description
CRT	Analog CRT. Also known as “VGA” typically using a 15 pin D-Sub connector.
HDMI	High-Definition Multimedia Interface
DP	Display Port
eDP	embedded Display Port

2.1.1.2 Display Configuration

Intel® EMGD supports driving two displays simultaneously. Several configurations are supported, dependent on operating system and processor. The various display configurations are described in the table below.

Table 3. Display Configuration Definitions

Display Configuration Mode	Description
Single	Normal desktop configuration, single monitor
Clone	Two displays, same content, different resolutions, independent timings
Extended	Two displays, different content, independent resolutions

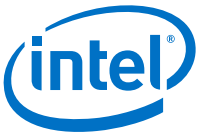
The table below summarizes which display configurations are supported by Intel chipsets.

Table 4. Supported Display Configurations

Chipset	Operating System
Intel® Atom™ Processor E3800 Product Family/ Intel® Celeron® Processor N2920/ J1900	Single, Clone, Extended

2.2 Features

The following sections describe major features that Intel® EMGD supports.



2.2.1 Processor(s) Supported

The table below lists Intel® EMGD-supported processors.

Table 5. Processors Supported by Intel® EMGD v. 36.15.0/37.15.0 for Intel® Atom™ Processor E3800 Product Family/ Intel® Celeron® Processor N2920/J1900 Windows* Release

Processor	Intel EMGD VBIOS Support	Intel EMGD Support	Embedded Pre-OS Graphics (EPOG) Support	Graphics Output Protocol (GOP) Support
Intel® Atom™ Processor E3800 Product Family/ Intel® Celeron® Processor N2920/J1900	Yes	Yes	Yes	Yes

All supported chipsets provide output on digital monitors. CRTs and TVs are supported through integrated display ports such as Display Port (DP), embedded Display Port (eDP), HDMI, etc. interfaces, depending on hardware availability.

2.2.2 OS Support

Intel® EMGD supports the following operating systems and driver variants:

- 32-bit and 64-bit Windows* 7, Windows Embedded Standard 7 (WES7), and other Windows 7 variants

Note: Use the respective 32-bit Intel® EMGD driver/GOP/VBIOS/EPOG for the 32-bit Windows*; the 64-bit Intel® EMGD driver/GOP for 64-bit Windows*.

2.2.3 Intel® Media SDK

The Intel® Media Software Development Kit (Intel® Media SDK) is a cross-platform application programming interface (API) for developing consumer and professional media applications, including video editing and processing, media conversion, streaming and playback, and video conferencing.

The SDK makes it easy for developers to optimize applications for Intel® HD Graphics' fixed-function hardware acceleration, currently part of the 2nd, 3rd, and 4th generation Intel® Core™ and new Intel® Atom™ processors.

Media SDK is used to enable features such as hardware accelerated video encode and other media features. It enables the most efficient handling for all of these sorts of capabilities.

For additional information including documentation for use of Intel Media SDK, please see:

http://software.intel.com/en-us/vcsource/tools/media-sdk

2.2.4 Video Encode

Hardware accelerated video encode is enabled via the Intel® Media SDK API. Microsoft Windows* 7 does not provide a native framework for supporting encode acceleration. To enable this feature, the driver includes Media SDK for applications to access the capabilities of the hardware.

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3.0 Configuration

3.1 Binary Modification Program

Intel® Binary Modification Program (BMP) is an application that allows you to modify the data in Video BIOS Table (VBT). The Video BIOS Table (VBT) is a block of customizable platform-specific data. It holds platform specific information used by the Video BIOS and device drivers such as Flat Panel Timings, OEM definable Mode Timing, GPIO pins, Clock, and more. The data in the VBT is customized using the BMP (Binary Modification Program) utility or simply editing the source code and rebuilding.

3.2 Configuring VBT Using BMP

1. Install the latest version of Intel® BMP on your host to be able to launch BMP. Download the latest version Intel® BMP and the latest version of Video BIOS files (`.bsf` and `.dat`) from https://platformsw.intel.com. If you do not have access, contact your Intel Representative.
2. Intel® BMP is designed for ease of use and configuration of Intel® EMGD VBIOS. Each configuration page has online help available and each data field is validated. Refer to *Intel® HD Graphics – Binary Modification Program (BMP) User Guide* and *Intel® HD Graphics – Binary Modification Program (BMP) - User Guide for GOP VBT* for more details on how to use BMP for VBT customization.

3.3 CUI

Intel® EMGD uses the standard Intel HD Graphics CUI interface for runtime configuration changes. As such, you may see the name “HD Graphics” instead of “EMGD” when accessing the on-screen menus of the CUI. This is to be expected, and may change in the future. For details on using the CUI interface, refer to the separate *Intel HD Graphics Driver Common User Interface Reference Software Product Specification* document listed in Section 1.3, “Related Documents” on page 6.

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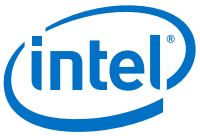

4.0 Firmware: VBIOS

4.1 Overview

The Intel® Embedded Video firmware (VBIOS) incorporates many of the features and capabilities of the Intel® Embedded Media and Graphics Driver. Intel® EMGD supports three variants of video firmware for different working environments, where one pairs GOP with SBIOS (UEFI), EPOG with OTM and VBIOS with Legacy SBIOS. Windows 7 requires a VBIOS to boot properly so you must be sure your firmware on your platform has a VBIOS. The video firmware includes support for the following processor:

- Intel® Atom™ Processor E3800 Product Family/ Intel® Celeron® Processor N2920/ J1900

Intel VBIOS uses the BMP tool for configuration. For more detail about VBIOS configuration, refer to the BMP document (for GOP and VBIOS as detailed in "Related Documents" on page 6) and in Section 4.0.

4.2 System Requirements for Video Firmware

The target system must contain one of the following Intel processor:

- Intel® Atom™ Processor E3800 Product Family/ Intel® Celeron® Processor N2920/ J1900
- The target system must contain a minimum of 64 MB of RAM.

Note: If you will be making VBIOS configuration changes, you will need access to your BIOS vendor's merge tool and flash utility as well as have the support files to make "VBT" (Video Bios Table) changes. Changes are merged into your BIOS and VBIOS images then flashed back onto the platform. Contact your BIOS vendor for details.

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5.0 Installing Windows* OS Drivers

5.1 Overview

This chapter describes the installation and configuration of the Intel® Embedded Media and Graphics Driver for (Intel® EMGD) Windows* Operating System. The instructions given here are applicable for 32-bit and 64-bit operating systems unless otherwise specifically mentioned. Refer to the product release notes for more details on the driver capabilities.

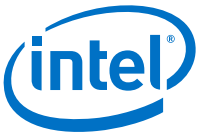
5.2 Hardware and Software Requirements for Intel® EMGD

The following lists hardware and software requirements for installing Intel® EMGD for Windows:

- The system must contain one of the following Intel processors or chipsets:
  - Intel® Atom™ Processor E3800 Product Family
  - Intel® Celeron® Processor N2920/J1900
- The software should be installed on systems with at least 1 GB of system memory.
- There should be sufficient hard disk space in the <TEMP> directory on the system to install this software.
- The drivers included with this distribution package are designed to function with all released versions of Microsoft Windows* 7 OS available at the time of release of this package.

5.3 General Installation Instruction for Intel® EMGD

1. The operating system must be installed prior to the installation of the driver.
2. This installation procedure is specific only to the version of driver and installation file included in this release.
3. This procedure assumes that all of the software associated with this release is located in the same directory.
4. To install from a Web download, you will download either a ZIP file or an EXE file from the Web.
   - If it is an EXE file, double-click the file you downloaded and specify a location into which the driver files will be extracted. Click **Unzip** to extract the files. Click **OK** on the next window, and then click **Close**.
   - If it is a ZIP file (.zip or .7z), you must unzip it using a utility such as WinZip* or PKZip*.



5.4 Installation of Intel® EMGD on a Windows* Platform

5.4.1 Intel® EMGD "Setup.exe" Installation

1. Locate the hard drive directory where the driver files are stored with the browser or the explore feature of Windows*.
2. Double-click `Setup.exe` from this directory.
   The Install dialog appears. By default on Windows* 7, a checkbox is selected to automatically run WinSAT and enable the Windows Aero desktop theme (if supported). If this support should be turned off, clear this checkbox The Intel Control Center is another option that can be installed if desired via a checkbox selection.
3. Click **Next** to continue.
4. Read the License Agreement and then click **Yes** to proceed.
5. Review the Readme File Information and then click **Next** to proceed.
6. When the Setup Progress is complete, click **Next** to proceed.
7. When the Setup Complete screen appears, click **Finish** to restart your computer.

5.4.2 Intel® EMGD "Hard Disk" Installation

1. Click **Start**, right-click **Computer**, and select **Properties**.
2. From the left panel, click **Device Manager**.
3. IF UPDATING DRIVER GO TO STEP 5.
4. Double-click **Video Controller (VGA Compatible)** if present under Other Devices. (Go To STEP 6.)
5. Select **Display adapters** and then double-click on the graphics controller shown.
6. Click the **Driver** tab and select **Update Driver**.
7. Select the following option: **Browse my computer for driver software**.
8. Select the following option: **Let me pick from a list of device drivers on my computer**.
9. Click **Have Disk...** and then **Browse**.
10. Enter the directory where you unzipped the file you downloaded, and then enter the `Graphics` subdirectory. Highlight `igdlh.INF` file. Click **Open**.
11. Click **OK** and then click **Next**. The operating system installs the driver.
12. Click **Close** and then click **Yes** to reboot. The driver should now be loaded.

5.4.3 Intel® EMGD Manual Installation

1. Click **Start**, right-click **Computer**, and select **Properties**.
2. From the left panel, click **Device Manager**.
3. IF UPDATING DRIVER GO TO STEP 5.
4. Double-click **Video Controller (VGA Compatible)** if present under Other Devices. (Go To STEP 6.)
5. Select **Display adapters** and then double-click on the graphics controller shown.
6. Click the **Driver** tab and select **Update Driver**.
7. Select the following option: **Browse my computer for driver software**.

8. Click **Browse**.
9. Enter the directory where you unzipped the file you downloaded, and then enter the `Graphics` subdirectory.
10. Click **OK** and then click **Next**. The operating system installs the driver if it considers this an upgrade.
11. Click **Close** and then click **Yes** to reboot. The driver should now be loaded.

5.5 Verifying Installation of Intel® EMGD

1. Click **Start**, right-click **Computer**, and select **Properties**.
2. From the left panel, click **Device Manager**.
3. Select **Display adapters**. The Intel Graphics Driver should be listed. If not, the driver is not installed correctly.

5.6 Installation of Intel® Display Audio Driver

1. Click **Start**, right-click **Computer**, and select **Properties**.
2. Click **Device Manager**.
3. Select the **Intel(R) Display Audio** device.
4. Audio Function Driver should be listed and not with a yellow exclamation mark (!). If not, the driver is not installed correctly.
5. To check the version of the driver, refer to the section below.

5.7 Identifying the Intel® EMGD Driver Version

1. Click **Start**, right-click **Computer**, and select **Properties**.
2. From the left panel, click **Device Manager**.
3. Select **Display adapters** and then double-click on the graphics controller shown.
4. Click the **Driver** tab and note the driver version.

5.8 Identifying Intel® Display Audio Driver Version

1. Click **Start**, right-click **Computer**, and select **Properties**.
2. From the left panel, click **Device Manager**.
3. Double-click **Intel(R) Display Audio**.
4. Select the **Driver** tab and then click **Driver Details**.
5. The function driver (`IntcDAud.sys`) version should be listed on this screen.

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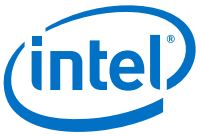

6.0 Runtime CUI Configuration

You can change the configuration and runtime attributes of the driver using the Intel® CUI runtime configuration tool. It provides a user-friendly platform for the user to make feature changes and customize the graphics settings to enhance the viewing experience. It retrieves status of the display and driver and is also used to configure the supported display attributes.

For more details on CUI Configuration, refer to *Intel® HD Graphics Driver – Common User Interface (CUI) Software Product Specification (SPS) Supporting 4th Generation Intel® Core™ Processor Graphics* (Document #507988)

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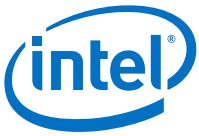

Appendix A Example INF File

```
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;
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; LICENSED ON AN "AS IS" BASIS AND INTEL WILL NOT PROVIDE ANY SUPPORT,
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; herein.
;
;============================================================================

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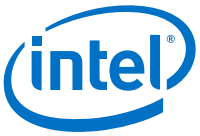

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CUISDK.Copy     = 11  ; system32

DDE.Copy        = 11  ; system32
Miracast.Copy        = 11  ; system32

IMOLA9.Copy       = 11  ; system32

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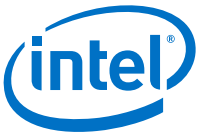
[IntelGfx.NTx86.6.1]
%iIVBGD0%      = iIVBD_w7, PCI\VEN_8086&DEV_0162
%iIVBGM0%       = iIVBM_w7, PCI\VEN_8086&DEV_0166
%iIVBGD0GT1%    = iIVBD_w7, PCI\VEN_8086&DEV_0152
%iIVBGM0GT1%    = iIVBM_w7, PCI\VEN_8086&DEV_0156
; IVB Server
%iIVBGD0SRV%     = iIVBD_w7, PCI\VEN_8086&DEV_016A
%iIVBGD0SRVGT1%  = iIVBD_w7, PCI\VEN_8086&DEV_015A
%iVLVGMT0%     = iVLV2M_w7, PCI\VEN_8086&DEV_0F31
; HSW Classic
%iHSWGT1D%   = iHSWD_w7, PCI\VEN_8086&DEV_0402
%iHSWGT1M%    = iHSWM_w7, PCI\VEN_8086&DEV_0406
%iHSWGT2D%   = iHSWD_w7, PCI\VEN_8086&DEV_0412
%iHSWGT2M%    = iHSWM_w7, PCI\VEN_8086&DEV_0416
%iHSWGT15D%    = iHSWD_w7, PCI\VEN_8086&DEV_041E
; HSW ULT
%iHSWGT1UT%    = iHSWM_w7, PCI\VEN_8086&DEV_0A06
%iHSWGT2UT%    = iHSWM_w7, PCI\VEN_8086&DEV_0A16
```

```
%iHSWGT3UT%     = iHSWM_w7, PCI\VEN_8086&DEV_0A26
%iHSWGT3UT28W%  = iHSWM_w7, PCI\VEN_8086&DEV_0A2E
%iHSWGT2UX%   = iHSWM_w7, PCI\VEN_8086&DEV_0A1E
%iHSWGT1ULX%  = iHSWM_w7, PCI\VEN_8086&DEV_0A0E
; HSW CRW
%iHSWGT3CW%      = iHSWM_w7, PCI\VEN_8086&DEV_0D26
%iHSWGT3CWDT%    = iHSWD_w7, PCI\VEN_8086&DEV_0D22
; HSW Server
%iHSWSVGT2%     = iHSWD_w7, PCI\VEN_8086&DEV_041A
%iHSWSVGT1%    = iHSWD_w7, PCI\VEN_8086&DEV_040A


;=================================================================
;    Windows 8 Install
;=================================================================
[IntelGfx.NTx86.6.2]
%iIVBGD0%         = iIVBD_w8, PCI\VEN_8086&DEV_0162
%iIVBGM0%        = iIVBM_w8, PCI\VEN_8086&DEV_0166
%iIVBGD0GT1%     = iIVBD_w8, PCI\VEN_8086&DEV_0152
%iIVBGM0GT1%     = iIVBM_w8, PCI\VEN_8086&DEV_0156
; IVB Server
%iIVBGD0SRV%      = iIVBD_w8, PCI\VEN_8086&DEV_016A
%iIVBGD0SRVGT1%   = iIVBD_w8, PCI\VEN_8086&DEV_015A
%iVLVGMT0%      = iVLV2M_w8, PCI\VEN_8086&DEV_0F31
; HSW Classic
%iHSWGT1D%    = iHSWD_w8, PCI\VEN_8086&DEV_0402
%iHSWGT1M%     = iHSWM_w8, PCI\VEN_8086&DEV_0406
%iHSWGT2D%    = iHSWD_w8, PCI\VEN_8086&DEV_0412
%iHSWGT2M%     = iHSWM_w8, PCI\VEN_8086&DEV_0416
%iHSWGT15D%     = iHSWD_w8, PCI\VEN_8086&DEV_041E
; HSW ULT
%iHSWGT1UT%     = iHSWM_w8, PCI\VEN_8086&DEV_0A06
%iHSWGT2UT%     = iHSWM_w8, PCI\VEN_8086&DEV_0A16
%iHSWGT3UT%     = iHSWM_w8, PCI\VEN_8086&DEV_0A26
%iHSWGT3UT28W%  = iHSWM_w8, PCI\VEN_8086&DEV_0A2E
%iHSWGT2UX%   = iHSWM_w8, PCI\VEN_8086&DEV_0A1E
%iHSWGT1ULX%  = iHSWM_w8, PCI\VEN_8086&DEV_0A0E
; HSW CRW
%iHSWGT3CW%      = iHSWM_w8, PCI\VEN_8086&DEV_0D26
%iHSWGT3CWDT%    = iHSWD_w8, PCI\VEN_8086&DEV_0D22
; HSW Server
%iHSWSVGT2%     = iHSWD_w8, PCI\VEN_8086&DEV_041A
%iHSWSVGT1%    = iHSWD_w8, PCI\VEN_8086&DEV_040A

;=================================================================
;    Windows 8.1 Install
;=================================================================
[IntelGfx.NTx86.6.3]
%iIVBGD0%         = iIVBD_w81, PCI\VEN_8086&DEV_0162
%iIVBGM0%        = iIVBM_w81, PCI\VEN_8086&DEV_0166
%iIVBGD0GT1%     = iIVBD_w81, PCI\VEN_8086&DEV_0152
%iIVBGM0GT1%     = iIVBM_w81, PCI\VEN_8086&DEV_0156
; IVB Server
%iIVBGD0SRV%      = iIVBD_w81, PCI\VEN_8086&DEV_016A
%iIVBGD0SRVGT1%   = iIVBD_w81, PCI\VEN_8086&DEV_015A
```



```
%iVLVGMT0%      = iVLV2M_w81, PCI\VEN_8086&DEV_0F31
; HSW Classic
%iHSWGT1D%    = iHSWD_w81, PCI\VEN_8086&DEV_0402
%iHSWGT1M%     = iHSWM_w81, PCI\VEN_8086&DEV_0406
%iHSWGT2D%    = iHSWD_w81, PCI\VEN_8086&DEV_0412
%iHSWGT2M%     = iHSWM_w81, PCI\VEN_8086&DEV_0416
%iHSWGT15D%     = iHSWD_w81, PCI\VEN_8086&DEV_041E
; HSW ULT
%iHSWGT1UT%     = iHSWM_w81, PCI\VEN_8086&DEV_0A06
%iHSWGT2UT%     = iHSWM_w81, PCI\VEN_8086&DEV_0A16
%iHSWGT3UT%     = iHSWM_w81, PCI\VEN_8086&DEV_0A26
%iHSWGT3UT28W%  = iHSWM_w81, PCI\VEN_8086&DEV_0A2E
%iHSWGT2UX%   = iHSWM_w81, PCI\VEN_8086&DEV_0A1E
%iHSWGT1ULX%   = iHSWM_w81, PCI\VEN_8086&DEV_0A0E
; HSW CRW
%iHSWGT3CW%      = iHSWM_w81, PCI\VEN_8086&DEV_0D26
%iHSWGT3CWDT%   = iHSWD_w81, PCI\VEN_8086&DEV_0D22
; HSW Server
%iHSWSVGT2%     = iHSWD_w81, PCI\VEN_8086&DEV_041A
%iHSWSVGT1%    = iHSWD_w81, PCI\VEN_8086&DEV_040A


;=============================================================================
;  Windows 7 Device Sections
;=============================================================================
[iIVBM_w7]
FeatureScore=E6
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy   , CUI.Copy ,
CUISDK.Copy , Resource.Copy , OpenGL_Gen7.Copy , IMOLA9.Copy     ,
MSDK_w7.copy
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =  igfx_RemoveDeviceSettings

AddReg  = CUI.AddReg
AddReg  = CUISDK.AddReg

DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch

AddReg = OpenGL_Gen7.AddReg , OpenGL.AddRegSmch.IVB
AddReg  = OpenGL.Installed

DelReg = OpenCL.DelReg

AddReg = Common_AddSwSettings
DelReg = Common_DelSwSettings
AddReg = Common_Mobile_AddSwSettings
DelReg = Common_Mobile_DelSwSettings

AddReg  = PwrCons_IVB_AddSwSettings
DelReg   = PwrCons_Generic_DelSwSettings
DelReg =   PwrCons_UserPolicy_DelSwSettings
```

```
AddReg  = igfx_SLT_NB_AddSwSettings
DelReg   = igfx_SLT_NB_DelSwSettings
AddReg  = Enable3DContexts_IVBM0_AddSwSettings
DelReg   = Enable3DContexts_IVBM0_DelSwSettings
AddReg = XVYCCFeature_AddSwSettings
DelReg  = XVYCCFeature_DelSwSettings
AddReg  =  DisplayOptimization_IVB_AddSwSettings
DelReg   =  DisplayOptimization_Generic_DelSwSettings
AddReg   = DisplayDPP_IVB_AddSwSettings
DelReg   = DisplayDPP_IVB_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
AddReg = MSDK_Win7_MFT_Enable
DelReg = MSDK_Win7_MFT_Disable
RegisterDLLs = MSDK_w7_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w7_RegisterDLLs, CUI_Register_DLLs

AddPowerSetting = PowerPlanSettings

[iIVBM_w7.HW]
AddReg = igfx_MSI_HardwareDeviceSettings

[iIVBM_w7.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles

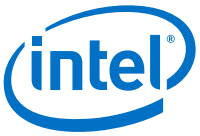
[iIVBM_w7.GeneralConfigData]
MaximumNumberOfDevices = 2
MaximumDeviceMemoryConfiguration = 512

[iIVBM_w7.Services]
AddService = igfx, 0x00000002, igfx_Service_Inst
AddService = cphs,, CP_HECI_Service_Inst
;=================================================================
[iIVBD_w7]
FeatureScore=E6
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy   , CUI.Copy ,
CUISDK.Copy , Resource.Copy , OpenGL_Gen7.Copy , IMOLA9.Copy    ,
MSDK_w7.copy
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =  igfx_RemoveDeviceSettings

AddReg  = CUI.AddReg
AddReg  = CUISDK.AddReg

DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch

AddReg = OpenGL_Gen7.AddReg , OpenGL.AddRegSmch.IVB
AddReg  = OpenGL.Installed
```



```
DelReg = OpenCL.DelReg

AddReg = Common_AddSwSettings
DelReg = Common_DelSwSettings
AddReg = PwrCons_IVB_AddSwSettings
DelReg = PwrCons_Generic_DelSwSettings
AddReg   = Enable3DContexts_IVBD0_AddSwSettings
DelReg    = Enable3DContexts_IVBD0_DelSwSettings
AddReg   = DisplayOptimization_IVB_AddSwSettings
DelReg    = DisplayOptimization_Generic_DelSwSettings
AddReg   = DisplayDPP_IVB_AddSwSettings
DelReg   = DisplayDPP_IVB_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
AddReg = MSDK_Win7_MFT_Enable
DelReg = MSDK_Win7_MFT_Disable
RegisterDLLs = MSDK_w7_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w7_RegisterDLLs, CUI_Register_DLLs

AddPowerSetting = PowerPlanSettings

[iIVBD_w7.HW]
AddReg = igfx_MSI_HardwareDeviceSettings

[iIVBD_w7.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles

[iIVBD_w7.GeneralConfigData]
MaximumNumberOfDevices = 2
MaximumDeviceMemoryConfiguration = 512

[iIVBD_w7.Services]
AddService = igfx, 0x00000002, igfx_Service_Inst
AddService = cphs,, CP_HECI_Service_Inst
;=================================================================
[iVLV2M_w7]
FeatureScore=E0
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy  , CUI.Copy ,
CUISDK.Copy , Resource.Copy , OpenGL_Gen7.Copy , IMOLA9.Copy    ,
MSDK_w7.copy
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =  igfx_RemoveDeviceSettings

AddReg  = CUI.AddReg
AddReg  = CUISDK.AddReg

DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch

AddReg = OpenGL_Gen7.AddReg , OpenGL.AddRegSmch.IVB
```

```
AddReg  = OpenGL.Installed

DelReg = OpenCL.DelReg

AddReg = Common_AddSwSettings
DelReg = Common_DelSwSettings
AddReg = Common_Mobile_AddSwSettings
DelReg = Common_Mobile_DelSwSettings

AddReg  = PwrCons_VLV2_AddSwSettings
DelReg  = PwrCons_Generic_DelSwSettings
AddReg     = AsyncFlips_VLV2_AddSwSettings
DelReg      = AsyncFlips_VLV2_DelSwSettings
AddReg  = igfx_SLT_NB_AddSwSettings
DelReg  = igfx_SLT_NB_DelSwSettings
AddReg     = Enable3DContexts_IVBM0_AddSwSettings
DelReg     = Enable3DContexts_IVBM0_DelSwSettings
AddReg    = DisplayOptimization_VLV2_AddSwSettings
DelReg    = DisplayOptimization_Generic_DelSwSettings
AddReg   = AvoidPPSOutsideModeSet_AddSwSettings
DelReg   = AvoidPPSOutsideModeSet_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
AddReg = MSDK_Win7_MFT_Enable
DelReg = MSDK_Win7_MFT_Disable
RegisterDLLs = MSDK_w7_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w7_RegisterDLLs, CUI_Register_DLLs

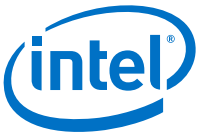
AddPowerSetting = PowerPlanSettings

[iVLV2M_w7.HW]
AddReg = igfx_MSI_HardwareDeviceSettings

[iVLV2M_w7.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles

[iVLV2M_w7.GeneralConfigData]
MaximumNumberOfDevices = 2
MaximumDeviceMemoryConfiguration = 512

[iVLV2M_w7.Services]
AddService = igfx, 0x00000002, igfx_Service_Inst
AddService = cphs,, CP_HECI_Service_Inst
;=================================================================
[iHSWM_w7]
FeatureScore=E6
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy   , CUI.Copy ,
CUISDK.Copy , Resource.Copy   , IMOLA9.Copy     , MSDK_w7.copy
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =   igfx_RemoveDeviceSettings
```



```
AddReg = CUI.AddReg
AddReg = CUISDK.AddReg

DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch

DelReg  = OpenGL.DelReg
AddReg  = OpenGL.Not_Installed

DelReg = OpenCL.DelReg

AddReg  = Common_AddSwSettings
DelReg = Common_DelSwSettings
AddReg = Common_Mobile_AddSwSettings
DelReg = Common_Mobile_DelSwSettings

AddReg = PwrCons_HSW_AddSwSettings
DelReg    = PwrCons_Generic_DelSwSettings
DelReg    = PwrCons_UserPolicy_DelSwSettings
AddReg   = Enable3DContexts_IVBM0_AddSwSettings
DelReg    = Enable3DContexts_IVBM0_DelSwSettings
AddReg   =  DisplayOptimization_HSW_AddSwSettings
DelReg    =  DisplayOptimization_Generic_DelSwSettings
AddReg   = AlternateScramblerSupport_HSW_AddSwSettings
DelReg    = AlternateScramblerSupport_HSW_DelSwSettings
AddReg = EnableDetachableEDPSupport_HSW_AddSwSettings
DelReg = EnableDetachableEDPSupport_HSW_DelSwSettings
AddReg  = XVYCCFeature_AddSwSettings
DelReg   = XVYCCFeature_DelSwSettings
AddReg  = igfx_SLT_NB_AddSwSettings
DelReg   = igfx_SLT_NB_DelSwSettings
AddReg  = AUDIOWOVIDEOSupport_AddSwSettings
DelReg  = AUDIOWOVIDEOSupport_DelSwSettings
AddReg  = AUDIOPERSISTENCE_AddSwSettings
DelReg   = AUDIOPERSISTENCE_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
AddReg = MSDK_Win7_MFT_Enable
DelReg = MSDK_Win7_MFT_Disable
RegisterDLLs = MSDK_w7_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w7_RegisterDLLs, CUI_Register_DLLs

AddPowerSetting = PowerPlanSettings

AddReg  = Compliance_HSW_AddSwSettings
DelReg  = Compliance_HSW_DelSwSettings

[iHSWM_w7.HW]
AddReg = igfx_MSI_HardwareDeviceSettings

[iHSWM_w7.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles
```

```
[iHSWM_w7.GeneralConfigData]
MaximumNumberOfDevices = 2
MaximumDeviceMemoryConfiguration = 512

[iHSWM_w7.Services]
AddService = igfx, 0x00000002, igfx_Service_Inst
AddService = cphs,, CP_HECI_Service_Inst
;=================================================================
[iHSWD_w7]
FeatureScore=E6
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy   , CUI.Copy ,
CUISDK.Copy , Resource.Copy   , IMOLA9.Copy      , MSDK_w7.copy
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =   igfx_RemoveDeviceSettings

AddReg = CUI.AddReg
AddReg = CUISDK.AddReg

DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch

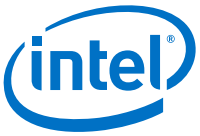
DelReg  =  OpenGL.DelReg
AddReg  = OpenGL.Not_Installed

DelReg = OpenCL.DelReg

AddReg = Common_AddSwSettings
DelReg  = Common_DelSwSettings
AddReg = Common_DT_AddSwSettings
DelReg = Common_DT_DelSwSettings

AddReg = PwrCons_HSW_AddSwSettings
DelReg = PwrCons_Generic_DelSwSettings
AddReg   = Enable3DContexts_IVBD0_AddSwSettings
DelReg    = Enable3DContexts_IVBD0_DelSwSettings
AddReg   = DisplayOptimization_HSW_AddSwSettings
DelReg    = DisplayOptimization_Generic_DelSwSettings
AddReg   = AlternateScramblerSupport_HSW_AddSwSettings
DelReg   = AlternateScramblerSupport_HSW_DelSwSettings
AddReg  = igfx_SLT_NB_AddSwSettings
DelReg   = igfx_SLT_NB_DelSwSettings
AddReg  = AUDIOWOVIDEOSupport_AddSwSettings
DelReg   = AUDIOWOVIDEOSupport_DelSwSettings
AddReg  = AUDIOPERSISTENCE_AddSwSettings
DelReg   = AUDIOPERSISTENCE_DelSwSettings
AddReg  = AUDIO_DT_WA_AddSwSettings
DelReg  = AUDIO_DT_WA_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
AddReg = MSDK_Win7_MFT_Enable
```



```
DelReg = MSDK_Win7_MFT_Disable
RegisterDLLs = MSDK_w7_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w7_RegisterDLLs, CUI_Register_DLLs

AddReg  = Compliance_HSW_AddSwSettings
DelReg  = Compliance_HSW_DelSwSettings

[iHSWD_w7.HW]
AddReg = igfx_MSI_HardwareDeviceSettings

[iHSWD_w7.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles

[iHSWD_w7.GeneralConfigData]
MaximumNumberOfDevices = 2
MaximumDeviceMemoryConfiguration = 512

[iHSWD_w7.Services]
AddService = igfx, 0x00000002, igfx_Service_Inst
AddService = cphs,, CP_HECI_Service_Inst


;=================================================================
;  Windows 8 Device Sections
;=================================================================
[iIVBM_w8]
FeatureScore=E0
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy  , CUI.Copy ,
CUISDK.Copy , Resource.Copy , OpenGL_Gen7.Copy , IMOLA9.Copy     ,
MSDK_w8.copy
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =  igfx_RemoveDeviceSettings

AddReg  = CUI.AddReg
AddReg  = CUISDK.AddReg

DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch

AddReg = OpenGL_Gen7.AddReg , OpenGL.AddRegSmch.IVB
AddReg  = OpenGL.Installed

DelReg = OpenCL.DelReg

AddReg = Common_AddSwSettings
DelReg = Common_DelSwSettings
AddReg = Common_Mobile_AddSwSettings
DelReg = Common_Mobile_DelSwSettings

AddReg = PwrCons_IVB_AddSwSettings
DelReg  = PwrCons_Generic_DelSwSettings
```

```
DelReg  = PwrCons_UserPolicy_DelSwSettings
AddReg = igfx_SLT_NB_AddSwSettings
DelReg  = igfx_SLT_NB_DelSwSettings
AddReg = Enable3DContexts_IVBM0_AddSwSettings
DelReg  = Enable3DContexts_IVBM0_DelSwSettings
AddReg = DisplayOptimization_IVB_AddSwSettings
DelReg  = DisplayOptimization_Generic_DelSwSettings
AddReg = XVYCCFeature_AddSwSettings
DelReg  = XVYCCFeature_DelSwSettings
AddReg   = AvoidPPSOutsideModeSet_AddSwSettings
DelReg   = AvoidPPSOutsideModeSet_DelSwSettings
AddReg   = DisplayDPP_IVB_AddSwSettings
DelReg   = DisplayDPP_IVB_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
AddReg = MSDK_Win8_MFT_Enable
DelReg = MSDK_Win8_MFT_Disable
RegisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs

AddPowerSetting = PowerPlanSettings

[iIVBM_w8.HW]
AddReg = igfx_MSI_HardwareDeviceSettings

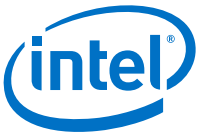
[iIVBM_w8.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles

[iIVBM_w8.GeneralConfigData]
MaximumNumberOfDevices = 2
MaximumDeviceMemoryConfiguration = 512

[iIVBM_w8.Services]
AddService = igfx, 0x00000002, igfx_Service_Inst
AddService = cphs,, CP_HECI_Service_Inst
;=================================================================
[iIVBD_w8]
FeatureScore=E0
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy   , CUI.Copy ,
CUISDK.Copy , Resource.Copy , OpenGL_Gen7.Copy , IMOLA9.Copy    ,
MSDK_w8.copy
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =  igfx_RemoveDeviceSettings

AddReg  = CUI.AddReg
AddReg  = CUISDK.AddReg

DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch
```



```
AddReg = OpenGL_Gen7.AddReg , OpenGL.AddRegSmch.IVB
AddReg  = OpenGL.Installed

DelReg = OpenCL.DelReg

AddReg = Common_AddSwSettings
DelReg = Common_DelSwSettings

AddReg = PwrCons_IVB_AddSwSettings
DelReg = PwrCons_Generic_DelSwSettings
AddReg = igfx_SLT_NB_AddSwSettings
DelReg = igfx_SLT_NB_DelSwSettings
AddReg = Common_DT_AddSwSettings
DelReg = Common_DT_DelSwSettings
AddReg   = Enable3DContexts_IVBD0_AddSwSettings
DelReg    = Enable3DContexts_IVBD0_DelSwSettings
AddReg   = DisplayOptimization_IVB_AddSwSettings
DelReg    = DisplayOptimization_Generic_DelSwSettings
AddReg   = XVYCCFeature_AddSwSettings
DelReg    = XVYCCFeature_DelSwSettings
AddReg   = AvoidPPSOutsideModeSet_AddSwSettings
DelReg   = AvoidPPSOutsideModeSet_DelSwSettings
AddReg   = DisplayDPP_IVB_AddSwSettings
DelReg   = DisplayDPP_IVB_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
AddReg = MSDK_Win8_MFT_Enable
DelReg = MSDK_Win8_MFT_Disable
RegisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs

AddPowerSetting = PowerPlanSettings

[iIVBD_w8.HW]
AddReg = igfx_MSI_HardwareDeviceSettings

[iIVBD_w8.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles

[iIVBD_w8.GeneralConfigData]
MaximumNumberOfDevices = 2
MaximumDeviceMemoryConfiguration = 512

[iIVBD_w8.Services]
AddService = igfx, 0x00000002, igfx_Service_Inst
AddService = cphs,, CP_HECI_Service_Inst
;=================================================================
[iVLV2M_w8]
FeatureScore=E0
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy  , CUI.Copy ,
CUISDK.Copy , Resource.Copy , OpenGL_Gen7.Copy , IMOLA9.Copy    ,
MSDK_w8.copy
```

```
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =  igfx_RemoveDeviceSettings

AddReg  = CUI.AddReg
AddReg  = CUISDK.AddReg

DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch

AddReg = OpenGL_Gen7.AddReg , OpenGL.AddRegSmch.IVB
AddReg  = OpenGL.Installed

DelReg = OpenCL.DelReg

AddReg = Common_AddSwSettings
DelReg = Common_DelSwSettings
AddReg = Common_Mobile_AddSwSettings
DelReg = Common_Mobile_DelSwSettings

AddReg  = PwrCons_VLV2_AddSwSettings
DelReg  = PwrCons_Generic_DelSwSettings
AddReg  = AsyncFlips_VLV2_AddSwSettings
DelReg     = AsyncFlips_VLV2_DelSwSettings
AddReg    = igfx_SLT_NB_AddSwSettings
DelReg     = igfx_SLT_NB_DelSwSettings
AddReg    = Enable3DContexts_IVBM0_AddSwSettings
DelReg    = Enable3DContexts_IVBM0_DelSwSettings
AddReg    = DisplayOptimization_VLV2_AddSwSettings
DelReg    = DisplayOptimization_Generic_DelSwSettings
AddReg   = AvoidPPSOutsideModeSet_AddSwSettings
DelReg   = AvoidPPSOutsideModeSet_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
AddReg = MSDK_Win8_MFT_Enable
DelReg = MSDK_Win8_MFT_Disable
RegisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs

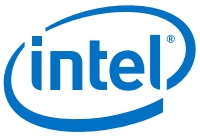
AddPowerSetting = PowerPlanSettings

[iVLV2M_w8.HW]
AddReg = igfx_MSI_HardwareDeviceSettings

[iVLV2M_w8.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles

[iVLV2M_w8.GeneralConfigData]
MaximumNumberOfDevices = 2
MaximumDeviceMemoryConfiguration = 512

[iVLV2M_w8.Services]
```



```
AddService = igfx, 0x00000002, igfx_Service_Inst
AddService = cphs,, CP_HECI_Service_Inst
;=================================================================
[iHSWM_w8]
FeatureScore=E0
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy  , CUI.Copy ,
CUISDK.Copy , Resource.Copy  , IMOLA9.Copy    , MSDK_w8.copy
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =   igfx_RemoveDeviceSettings

AddReg = CUI.AddReg
AddReg = CUISDK.AddReg

DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch

DelReg  = OpenGL.DelReg
AddReg  = OpenGL.Not_Installed

DelReg = OpenCL.DelReg
AddReg  = Common_AddSwSettings
DelReg = Common_DelSwSettings
AddReg = Common_Mobile_AddSwSettings
DelReg = Common_Mobile_DelSwSettings

AddReg = PwrCons_HSW_AddSwSettings
DelReg = PwrCons_Generic_DelSwSettings
DelReg    = PwrCons_UserPolicy_DelSwSettings
AddReg   = Enable3DContexts_IVBM0_AddSwSettings
DelReg    = Enable3DContexts_IVBM0_DelSwSettings
AddReg   = DisplayOptimization_HSW_AddSwSettings
DelReg    = DisplayOptimization_Generic_DelSwSettings
AddReg   = XVYCCFeature_AddSwSettings
DelReg   = XVYCCFeature_DelSwSettings
AddReg   = DisplayDPP_HSW_AddSwSettings
DelReg    = DisplayDPP_HSW_DelSwSettings
AddReg   = AlternateScramblerSupport_HSW_AddSwSettings
DelReg    = AlternateScramblerSupport_HSW_DelSwSettings
AddReg = EnableDetachableEDPSupport_HSW_AddSwSettings
DelReg = EnableDetachableEDPSupport_HSW_DelSwSettings
AddReg   = igfx_SLT_NB_AddSwSettings
DelReg    = igfx_SLT_NB_DelSwSettings
AddReg   = AUDIOWOVIDEOSupport_AddSwSettings
DelReg   = AUDIOWOVIDEOSupport_DelSwSettings
AddReg  = AUDIOPERSISTENCE_AddSwSettings
DelReg   = AUDIOPERSISTENCE_DelSwSettings
AddReg   = AvoidPPSOutsideModeSet_AddSwSettings
DelReg   = AvoidPPSOutsideModeSet_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
AddReg = MSDK_Win8_MFT_Enable
```

```
DelReg = MSDK_Win8_MFT_Disable
RegisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs

AddPowerSetting = PowerPlanSettings

AddReg  = Compliance_HSW_AddSwSettings
DelReg  = Compliance_HSW_DelSwSettings

[iHSWM_w8.HW]
AddReg = igfx_MSI_HardwareDeviceSettings

[iHSWM_w8.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles

[iHSWM_w8.GeneralConfigData]
MaximumNumberOfDevices = 2
MaximumDeviceMemoryConfiguration = 512

[iHSWM_w8.Services]
AddService = igfx, 0x00000002, igfx_Service_Inst
AddService = cphs,, CP_HECI_Service_Inst

;=========================================================================
[iHSWD_w8]
FeatureScore=E0
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy   , CUI.Copy ,
CUISDK.Copy , Resource.Copy   , IMOLA9.Copy    , MSDK_w8.copy
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =   igfx_RemoveDeviceSettings

AddReg = CUI.AddReg
AddReg = CUISDK.AddReg

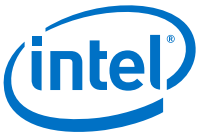
DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch

DelReg  =  OpenGL.DelReg
AddReg  = OpenGL.Not_Installed

DelReg = OpenCL.DelReg

AddReg = Common_AddSwSettings
DelReg  = Common_DelSwSettings
AddReg = Common_DT_AddSwSettings
DelReg = Common_DT_DelSwSettings

AddReg = PwrCons_HSW_AddSwSettings
DelReg = PwrCons_Generic_DelSwSettings
AddReg   = Enable3DContexts_IVBD0_AddSwSettings
DelReg    = Enable3DContexts_IVBD0_DelSwSettings
```



```
AddReg   = DisplayOptimization_HSW_AddSwSettings
DelReg    = DisplayOptimization_Generic_DelSwSettings
AddReg   = XVYCCFeature_AddSwSettings
DelReg    = XVYCCFeature_DelSwSettings
AddReg  = AlternateScramblerSupport_HSW_AddSwSettings
DelReg  = AlternateScramblerSupport_HSW_DelSwSettings
AddReg = igfx_SLT_NB_AddSwSettings
DelReg  = igfx_SLT_NB_DelSwSettings
AddReg = AUDIOWOVIDEOSupport_AddSwSettings
DelReg  = AUDIOWOVIDEOSupport_DelSwSettings
AddReg  = AUDIOPERSISTENCE_AddSwSettings
DelReg   = AUDIOPERSISTENCE_DelSwSettings
AddReg   = AvoidPPSOutsideModeSet_AddSwSettings
DelReg   = AvoidPPSOutsideModeSet_DelSwSettings
AddReg  = AUDIO_DT_WA_AddSwSettings
DelReg  = AUDIO_DT_WA_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
AddReg = MSDK_Win8_MFT_Enable
DelReg = MSDK_Win8_MFT_Disable
RegisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs

AddReg  = Compliance_HSW_AddSwSettings
DelReg  = Compliance_HSW_DelSwSettings

[iHSWD_w8.HW]
AddReg = igfx_MSI_HardwareDeviceSettings

[iHSWD_w8.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles

[iHSWD_w8.GeneralConfigData]
MaximumNumberOfDevices = 2
MaximumDeviceMemoryConfiguration = 512

[iHSWD_w8.Services]
AddService = igfx, 0x00000002, igfx_Service_Inst
AddService = cphs,, CP_HECI_Service_Inst

;=========================================================================
;  Windows8.1 Device Sections
;=========================================================================
[iIVBM_w81]
FeatureScore=DA
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy  , CUI.Copy ,
CUISDK.Copy , Resource.Copy , OpenGL_Gen7.Copy , IMOLA9.Copy     ,
MSDK_w8.copy
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =  igfx_RemoveDeviceSettings
```

```
AddReg  = CUI.AddReg
AddReg  = CUISDK.AddReg

DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch

AddReg = OpenGL_Gen7.AddReg , OpenGL.AddRegSmch.IVB
AddReg  = OpenGL.Installed

DelReg = OpenCL.DelReg

AddReg = Common_AddSwSettings
DelReg = Common_DelSwSettings
AddReg = Common_Mobile_AddSwSettings
DelReg = Common_Mobile_DelSwSettings

AddReg = PwrCons_IVB_AddSwSettings
DelReg  = PwrCons_Generic_DelSwSettings
DelReg  = PwrCons_UserPolicy_DelSwSettings
AddReg = igfx_SLT_NB_AddSwSettings
DelReg  = igfx_SLT_NB_DelSwSettings
AddReg = Enable3DContexts_IVBM0_AddSwSettings
DelReg  = Enable3DContexts_IVBM0_DelSwSettings
AddReg = DisplayOptimization_IVB_AddSwSettings
DelReg  = DisplayOptimization_Generic_DelSwSettings
AddReg = XVYCCFeature_AddSwSettings
DelReg  = XVYCCFeature_DelSwSettings
AddReg   = AvoidPPSOutsideModeSet_AddSwSettings
DelReg   = AvoidPPSOutsideModeSet_DelSwSettings
AddReg   = DisplayDPP_IVB_AddSwSettings
DelReg   = DisplayDPP_IVB_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
AddReg = MSDK_Win8_MFT_Enable
DelReg = MSDK_Win8_MFT_Disable
RegisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs

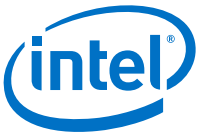
AddPowerSetting = PowerPlanSettings

[iIVBM_w81.HW]
AddReg = igfx_MSI_HardwareDeviceSettings

[iIVBM_w81.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles

[iIVBM_w81.GeneralConfigData]
MaximumNumberOfDevices = 2
MaximumDeviceMemoryConfiguration = 512

[iIVBM_w81.Services]
AddService = igfx, 0x00000002, igfx_Service_Inst
```



```
AddService = cphs,, CP_HECI_Service_Inst
;=================================================================
[iIVBD_w81]
FeatureScore=DA
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy  , CUI.Copy ,
CUISDK.Copy , Resource.Copy , OpenGL_Gen7.Copy , IMOLA9.Copy    ,
MSDK_w8.copy
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =  igfx_RemoveDeviceSettings

AddReg  = CUI.AddReg
AddReg  = CUISDK.AddReg

DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch

AddReg = OpenGL_Gen7.AddReg , OpenGL.AddRegSmch.IVB
AddReg  = OpenGL.Installed

DelReg = OpenCL.DelReg

AddReg = Common_AddSwSettings
DelReg = Common_DelSwSettings

AddReg = PwrCons_IVB_AddSwSettings
DelReg = PwrCons_Generic_DelSwSettings
AddReg = igfx_SLT_NB_AddSwSettings
DelReg = igfx_SLT_NB_DelSwSettings
AddReg = Common_DT_AddSwSettings
DelReg = Common_DT_DelSwSettings
AddReg   = Enable3DContexts_IVBD0_AddSwSettings
DelReg    = Enable3DContexts_IVBD0_DelSwSettings
AddReg   = DisplayOptimization_IVB_AddSwSettings
DelReg    = DisplayOptimization_Generic_DelSwSettings
AddReg   = XVYCCFeature_AddSwSettings
DelReg    = XVYCCFeature_DelSwSettings
AddReg   = AvoidPPSOutsideModeSet_AddSwSettings
DelReg   = AvoidPPSOutsideModeSet_DelSwSettings
AddReg   = DisplayDPP_IVB_AddSwSettings
DelReg   = DisplayDPP_IVB_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
AddReg = MSDK_Win8_MFT_Enable
DelReg = MSDK_Win8_MFT_Disable
RegisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs

AddPowerSetting = PowerPlanSettings

[iIVBD_w81.HW]
AddReg = igfx_MSI_HardwareDeviceSettings
```

```
[iIVBD_w81.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles

[iIVBD_w81.GeneralConfigData]
MaximumNumberOfDevices = 2
MaximumDeviceMemoryConfiguration = 512

[iIVBD_w81.Services]
AddService = igfx, 0x00000002, igfx_Service_Inst
AddService = cphs,, CP_HECI_Service_Inst
;=================================================================
[iVLV2M_w81]
FeatureScore=DA
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy  , CUI.Copy ,
CUISDK.Copy , Resource.Copy , OpenGL_Gen7.Copy , IMOLA9.Copy    ,
MSDK_w8.copy
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =  igfx_RemoveDeviceSettings

AddReg  = CUI.AddReg
AddReg  = CUISDK.AddReg

DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch

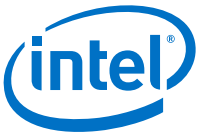
AddReg = OpenGL_Gen7.AddReg , OpenGL.AddRegSmch.IVB
AddReg  = OpenGL.Installed

DelReg = OpenCL.DelReg

AddReg = Common_AddSwSettings
DelReg = Common_DelSwSettings
AddReg = Common_Mobile_AddSwSettings
DelReg = Common_Mobile_DelSwSettings

AddReg  = PwrCons_VLV2_AddSwSettings
DelReg  = PwrCons_Generic_DelSwSettings
AddReg  = AsyncFlips_VLV2_AddSwSettings
DelReg     = AsyncFlips_VLV2_DelSwSettings
AddReg    = igfx_SLT_NB_AddSwSettings
DelReg     = igfx_SLT_NB_DelSwSettings
AddReg    = Enable3DContexts_IVBM0_AddSwSettings
DelReg    = Enable3DContexts_IVBM0_DelSwSettings
AddReg    = DisplayOptimization_VLV2_AddSwSettings
DelReg    = DisplayOptimization_Generic_DelSwSettings
AddReg   = AvoidPPSOutsideModeSet_AddSwSettings
DelReg   = AvoidPPSOutsideModeSet_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
```



```
AddReg = MSDK_Win8_MFT_Enable
DelReg = MSDK_Win8_MFT_Disable
RegisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs

AddPowerSetting = PowerPlanSettings

[iVLV2M_w81.HW]
AddReg = igfx_MSI_HardwareDeviceSettings

[iVLV2M_w81.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles

[iVLV2M_w81.GeneralConfigData]
MaximumNumberOfDevices = 2
MaximumDeviceMemoryConfiguration = 512

[iVLV2M_w81.Services]
AddService = igfx, 0x00000002, igfx_Service_Inst
AddService = cphs,, CP_HECI_Service_Inst
;=================================================================
[iHSWM_w81]
FeatureScore=DA
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy  , CUI.Copy ,
CUISDK.Copy , Resource.Copy  , IMOLA9.Copy    , MSDK_w8.copy
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =   igfx_RemoveDeviceSettings

AddReg = CUI.AddReg
AddReg = CUISDK.AddReg

DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch

DelReg  = OpenGL.DelReg
AddReg  = OpenGL.Not_Installed

DelReg = OpenCL.DelReg

AddReg  = Common_AddSwSettings
DelReg = Common_DelSwSettings
AddReg = Common_Mobile_AddSwSettings
DelReg = Common_Mobile_DelSwSettings

AddReg = PwrCons_HSW_AddSwSettings
DelReg = PwrCons_Generic_DelSwSettings
DelReg    = PwrCons_UserPolicy_DelSwSettings
AddReg   = Enable3DContexts_IVBM0_AddSwSettings
DelReg    = Enable3DContexts_IVBM0_DelSwSettings
AddReg   = DisplayOptimization_HSW_AddSwSettings
DelReg    = DisplayOptimization_Generic_DelSwSettings
```

```
AddReg   = XVYCCFeature_AddSwSettings
DelReg    = XVYCCFeature_DelSwSettings
AddReg   = DisplayDPP_HSW_AddSwSettings
DelReg    = DisplayDPP_HSW_DelSwSettings
AddReg   = AlternateScramblerSupport_HSW_AddSwSettings
DelReg   = AlternateScramblerSupport_HSW_DelSwSettings
AddReg  = igfx_SLT_NB_AddSwSettings
DelReg   = igfx_SLT_NB_DelSwSettings
AddReg   = AUDIOWOVIDEOSupport_AddSwSettings
DelReg   = AUDIOWOVIDEOSupport_DelSwSettings
AddReg  = AUDIOPERSISTENCE_AddSwSettings
DelReg   = AUDIOPERSISTENCE_DelSwSettings
AddReg   = AvoidPPSOutsideModeSet_AddSwSettings
DelReg   = AvoidPPSOutsideModeSet_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
AddReg = MSDK_Win8_MFT_Enable
DelReg = MSDK_Win8_MFT_Disable
RegisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs

AddPowerSetting = PowerPlanSettings

AddReg  = Compliance_HSW_AddSwSettings
DelReg  = Compliance_HSW_DelSwSettings

[iHSWM_w81.HW]
AddReg = igfx_MSI_HardwareDeviceSettings

[iHSWM_w81.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles

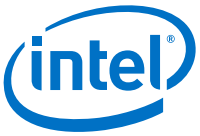
[iHSWM_w81.GeneralConfigData]
MaximumNumberOfDevices = 2
MaximumDeviceMemoryConfiguration = 512

[iHSWM_w81.Services]
AddService = igfx, 0x00000002, igfx_Service_Inst
AddService = cphs,, CP_HECI_Service_Inst

;=================================================================

[iHSWD_w81]
FeatureScore=DA
DelFiles=CUI.DelFiles
CopyFiles=igfx.Miniport, igfx.UserMode, DDE.Copy, Opm.Copy   , CUI.Copy ,
CUISDK.Copy , Resource.Copy   , IMOLA9.Copy    , MSDK_w8.copy
AddReg =  igfx_SoftwareDX11Settings
AddReg =  igfx_SoftwareCommonSettings
DelReg =   igfx_RemoveDeviceSettings

AddReg = CUI.AddReg
AddReg = CUISDK.AddReg
```



```
DelReg  = CUI.DelReg
DelReg  = CUISDK.DelReg
DelReg  = OpenGL.DelRegSmch

DelReg  =  OpenGL.DelReg
AddReg  = OpenGL.Not_Installed

DelReg = OpenCL.DelReg

AddReg = Common_AddSwSettings
DelReg  = Common_DelSwSettings
AddReg = Common_DT_AddSwSettings
DelReg = Common_DT_DelSwSettings

AddReg = PwrCons_HSW_AddSwSettings
DelReg = PwrCons_Generic_DelSwSettings
AddReg   = Enable3DContexts_IVBD0_AddSwSettings
DelReg    = Enable3DContexts_IVBD0_DelSwSettings
AddReg   = DisplayOptimization_HSW_AddSwSettings
DelReg    = DisplayOptimization_Generic_DelSwSettings
AddReg   = XVYCCFeature_AddSwSettings
DelReg    = XVYCCFeature_DelSwSettings
AddReg  = AlternateScramblerSupport_HSW_AddSwSettings
DelReg  = AlternateScramblerSupport_HSW_DelSwSettings
AddReg = igfx_SLT_NB_AddSwSettings
DelReg  = igfx_SLT_NB_DelSwSettings
AddReg = AUDIOWOVIDEOSupport_AddSwSettings
DelReg  = AUDIOWOVIDEOSupport_DelSwSettings
AddReg  = AUDIOPERSISTENCE_AddSwSettings
DelReg   = AUDIOPERSISTENCE_DelSwSettings
AddReg   = AvoidPPSOutsideModeSet_AddSwSettings
DelReg   = AvoidPPSOutsideModeSet_DelSwSettings
AddReg  = AUDIO_DT_WA_AddSwSettings
DelReg  = AUDIO_DT_WA_DelSwSettings

AddReg = MSDK_4_0_AddSwSettings
DelReg = MSDK_4_0_DelSwSettings
AddReg = MSDK_Win8_MFT_Enable
DelReg = MSDK_Win8_MFT_Disable
RegisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs
UnregisterDLLs = MSDK_w8_RegisterDLLs, CUI_Register_DLLs

AddReg  = Compliance_HSW_AddSwSettings
DelReg  = Compliance_HSW_DelSwSettings

[iHSWD_w81.HW]
AddReg = igfx_MSI_HardwareDeviceSettings

[iHSWD_w81.CoInstallers]
AddReg = CoInst.AddReg
CopyFiles = CoInst.CopyFiles

[iHSWD_w81.GeneralConfigData]
MaximumNumberOfDevices = 2
```

```
MaximumDeviceMemoryConfiguration = 512

[iHSWD_w81.Services]
AddService = igfx, 0x00000002, igfx_Service_Inst
AddService = cphs,, CP_HECI_Service_Inst
;=================================================================
; End Device Sections
;=================================================================

;=================================================================
;  Media SDK Support
;=================================================================
[MSDK_4_0_AddSwSettings]
HKLM, Software\Intel\MediaSDK\Dispatch\iIVB_0162, DeviceID, %REG_DWORD%,
0x0162
HKLM, Software\Intel\MediaSDK\Dispatch\iIVB_0162, VendorID, %REG_DWORD%,
0x8086
HKLM, Software\Intel\MediaSDK\Dispatch\iIVB_0162, APIVersion,
%REG_DWORD%, 0x107
HKLM, Software\Intel\MediaSDK\Dispatch\iIVB_0162, Merit,%REG_DWORD%,
0x08000014
HKLM, Software\Intel\MediaSDK\Dispatch\iIVB_0162, Path, %REG_SZ%,
"%16422%\Intel\Media SDK\libmfxhw32.dll"

HKLM, Software\Intel\MediaSDK\Dispatch\iIVB_0166, DeviceID, %REG_DWORD%,
0x0166
HKLM, Software\Intel\MediaSDK\Dispatch\iIVB_0166, VendorID, %REG_DWORD%,
0x8086
HKLM, Software\Intel\MediaSDK\Dispatch\iIVB_0166, APIVersion,
%REG_DWORD%, 0x107
HKLM, Software\Intel\MediaSDK\Dispatch\iIVB_0166, Merit,%REG_DWORD%,
0x08000014
HKLM, Software\Intel\MediaSDK\Dispatch\iIVB_0166, Path, %REG_SZ%,
"%16422%\Intel\Media SDK\libmfxhw32.dll"

HKLM, Software\Intel\MediaSDK\Dispatch\iIVB_0152, DeviceID, %REG_DWORD%,
0x0152
HKLM, Software\Intel\MediaSDK\Dispatch\iIVB_0152, VendorID, %REG_DWORD%,
0x8086
HKLM, Software\Intel\MediaSDK\Dispatch\iIVB_0152, APIVersion,
%REG_DWORD%, 0x107
HKLM, Software\Intel\MediaSDK\Dispatch\iIVB_0152, Merit,%REG_DWORD%,
0x08000014
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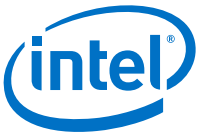

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```
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0x08000014
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0x08000014
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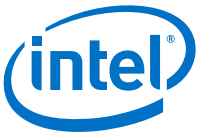

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```
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0x08000014
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"%16422%\Intel\Media SDK\libmfxhw32.dll"

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EnableVideoProcessors, %REG_DWORD%, 0x0001

[MSDK_Win7_MFT_Disable]
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EnableEncoders, %REG_DWORD%,  0x0000
HKLM, Software\Microsoft\Windows Media Foundation\HardwareMFT,
EnableVideoProcessors, %REG_DWORD%, 0x0000
;=========================================================================
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libmfxhw32.dll,,,0x00004000        ; COPYFLG_IN_USE_TRY_RENAME Intel
MediaSDK library
mfx_mft_h264vd_w7_32.dll,,,0x00004000 ; COPYFLG_IN_USE_TRY_RENAME H.264
Decoder MFT
mfx_mft_h264ve_w7_32.dll,,,0x00004000 ; COPYFLG_IN_USE_TRY_RENAME H.264
Encoder MFT
mfx_mft_mjpgvd_w7_32.dll,,,0x00004000 ; COPYFLG_IN_USE_TRY_RENAME
mfx_mft_mp2vd_w7_32.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME MPEG-2
Decoder MFT
mfx_mft_vc1vd_w7_32.dll,,,0x00004000    ; COPYFLG_IN_USE_TRY_RENAME VC-1
Decoder MFT
mfx_mft_vpp_w7_32.dll,,,0x00004000       ; COPYFLG_IN_USE_TRY_RENAME
Video Pre-Processing MFT
m_w7_32.vp
v1_w7_32.vp
vp_w7_32.vp
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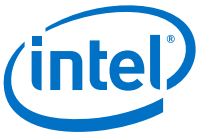

```
c_w7_32.cpa
cpa_w7_32.vp
dev_w7_32.vp
h_w7_32.vp
he_w7_32.vp
mj_w7_32.vp

[MSDK_w7_RegisterDLLs]
16422,Intel\Media SDK,mfx_mft_h264vd_w7_32.dll,1
16422,Intel\Media SDK,mfx_mft_h264ve_w7_32.dll,1
16422,Intel\Media SDK,mfx_mft_mjpgvd_w7_32.dll,1
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16422,Intel\Media SDK,mfx_mft_vpp_w7_32.dll,1

;=====================================================================
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EnableDecoders, %REG_DWORD%, 0x0001

[MSDK_Win8_MFT_Disable]
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MediaSDK library
mfx_mft_h264ve_32.dll,,,0x00004000 ; COPYFLG_IN_USE_TRY_RENAME H.264
Encoder MFT
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Decoder MFT
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cpa_32.vp,,,0x00004000; COPYFLG_IN_USE_TRY_RENAME
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mj_32.vp,,,0x00004000; COPYFLG_IN_USE_TRY_RENAME

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16422,Intel\Media SDK,mfx_mft_mjpgvd_32.dll,1
;=====================================================
;  End - Media SDK Sections
;=====================================================

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CoDeviceInstall"

[CoInst.CopyFiles]
igfxCoIn_v1053.dll,igxpco32.dll,,0x00000010
;
; File sections
```

```
;
[CUI.DelFiles]
igfxres.dll,,,1

[igfx.Miniport]
igdkmd32.sys

[igfx.UserMode]
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igdusc32.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME
igdmd32.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME
igfxcmrt32.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME
igfx11cmrt32.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME
igfxcmjit32.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME
IccLibDll.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME

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igdail32.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME

[Opm.Copy]
iglhxs32.vp
iglhxo32.vp
iglhxc32.vp
iglhxg32.vp
iglhxo32_dev.vp
iglhxc32_dev.vp
iglhxg32_dev.vp
iglhxa32.vp
iglhxa32.cpa
iglhcp32.dll

iglhsip32.dll
IntelCpHeciSvc.exe

[DDE.Copy]
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[CUI_Register_DLLs]
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11,,igfxsrvc.dll,1
11,,gfxSrvc.dll,1
11,,igfxpph.dll,1
11,,igfxdev.dll,1
11,,igfxdo.dll,1
11,,igfxress.dll,1
11,,igfxTMM.dll,1
11,,igfxexps.dll,1
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; Start CUI Copy Sections
;
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igfxsrvc.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME
igfxsrvc.exe
```

```
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igfxcpl.cpl
igfxdev.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME
igfxdo.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME
igfxtray.exe
hkcmd.exe
igfxress.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME         ; Generic
language resource file
igfxpers.exe
igfxstarter.exe
igfxTMM.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME
gfxSrvc.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME
GfxUIEx.exe
GfxUIEx.exe.config
DPTopologyApp.exe
DPTopologyApp.exe.config
CustomModeApp.exe
CustomModeApp.exe.config
GfxRes.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME
MetroIntelGenericUIFramework.dll,,,0x00004000  ;
COPYFLG_IN_USE_TRY_RENAME
GfxUIHotKeyMenu.exe
GfxUIHotKeyMenu.exe.config
IGFXDEVLib.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME

[CUISDK.Copy]
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igfxexps.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME  ; CUI SDK proxy
stub

[Resource.Copy]
; Language Resource files
igfxrenu.lrc    ; American English
Gfxres.en-US.resources
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; End CUI Copy Sections
;

;
; OpenGL Installed
;
[OpenGL.Installed]
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drivers installed

;
; OpenGL Not Installed
;
[OpenGL.Not_Installed]
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drivers not installed


[OpenGL_Gen7.Copy]
ig7icd32.dll,,,0x00004000  ; COPYFLG_IN_USE_TRY_RENAME
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```
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HKR,, OpenGLFlags,               %REG_DWORD%,    3

[OpenGL.AddRegSmch.IVB]
HKR,, _oglapp_UT2004.exe, %REG_DWORD%, 0x00000001
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HKR,, _oglapp_Viewperf.exe, %REG_DWORD%, 0x00000008
HKR,, _oglapp_GpuCapsViewer.exe, %REG_DWORD%, 0x00000040
HKR,, _oglapp_brink.exe, %REG_DWORD%, 0x00000080



[OpenGL.DelReg]
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HKR,, OpenGLVersion
HKR,, OpenGLFlags

[OpenGL.DelRegSmch]
HKR,, _oglapp_UT2004.exe
HKR,, _oglapp_Photoshop.exe
HKR,, _oglapp_Viewperf.exe
HKR,, _oglapp_Amnesia.exe
HKR,, _oglapp_GpuCapsViewer.exe
HKR,, _oglapp_brink.exe

[OpenCL.DelReg]
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[CUI.DelReg]
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HKLM,%DisplayKey%
; Delete old style cui/driver share key
HKLM,%CUIDriverOldShareKey%
; Delete old style cui keys which are device dependent
HKLM,Software\INTEL\igfxcui
HKLM,Software\INTEL\TVWizard
HKR,igfxdiag
HKR,igfxeud
HKR,igfxcfg
HKR,igfxcpl
HKR,igfxpph
HKR,igfxsrvc
HKR,igfxhk
HKR,hkcmd
HKR,igfxtray
HKR,shellex\PropertySheetHandlers
HKR,, Display1_EnableLFPPrimaryInDDC
;
; Delete the CUI registry entry which registers for winlogon events
;
HKLM,"SOFTWARE\Microsoft\Windows
NT\CurrentVersion\Winlogon\Notify\igfxcui"
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HKCR,"igfx.CUIService\CurVer"
HKCR,"igfx.CUIService"
HKCR,"igfx.CUIService.1\CLSID"
HKCR,"igfx.CUIService.1"
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00A0C93CB1F4}\InProcServer32\ThreadingModel"
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00A0C93CB1F4}\VersionIndependentProgID"
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;CUITestConfig

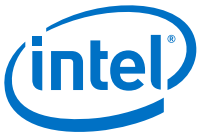
HKCR,"igfx.CUITestConfig\CLSID"
HKCR,"igfx.CUITestConfig\CurVer"
HKCR,"igfx.CUITestConfig"
HKCR,"igfx.CUITestConfig.1\CLSID"
HKCR,"igfx.CUITestConfig.1"
HKCR,"CLSID\{97DC3661-693D-11d4-B561-
00A0C92E6848}\InProcServer32\ThreadingModel"
HKCR,"CLSID\{97DC3661-693D-11d4-B561-00A0C92E6848}\InProcServer32"
HKCR,"CLSID\{97DC3661-693D-11d4-B561-00A0C92E6848}\ProgID"
HKCR,"CLSID\{97DC3661-693D-11d4-B561-00A0C92E6848}\Programmable"
HKCR,"CLSID\{97DC3661-693D-11d4-B561-
00A0C92E6848}\VersionIndependentProgID"
HKCR,"CLSID\{97DC3661-693D-11d4-B561-00A0C92E6848}"

;igfxeud.EndUserShellExt

HKCR,"igfxeud.EndUserShellExt\CLSID"
HKCR,"igfxeud.EndUserShellExt\CurVer"
HKCR,"igfxeud.EndUserShellExt"
HKCR,"igfxeud.EndUserShellExt.1"
HKCR,"igfxeud.EndUserShellExt.1\CLSID"
HKCR,"CLSID\{3AB167A5-CCFF-11D2-8B20-
00A0C93CB1F4}\InProcServer32\ThreadingModel"
HKCR,"CLSID\{3AB167A5-CCFF-11D2-8B20-00A0C93CB1F4}\InProcServer32"
HKCR,"CLSID\{3AB167A5-CCFF-11D2-8B20-00A0C93CB1F4}\ProgID"
HKCR,"CLSID\{3AB167A5-CCFF-11D2-8B20-00A0C93CB1F4}\Programmable"
HKCR,"CLSID\{3AB167A5-CCFF-11D2-8B20-
00A0C93CB1F4}\VersionIndependentProgID"
HKCR,"CLSID\{3AB167A5-CCFF-11D2-8B20-00A0C93CB1F4}"

;igfxdiag.DiagServices

HKCR,"igfx.DiagServices\CLSID"
HKCR,"igfx.DiagServices\CurVer"
HKCR,"igfx.DiagServices"
HKCR,"igfx.DiagServices.1\CLSID"
HKCR,"igfx.DiagServices.1"
```




```
HKCR,"CLSID\{0EF91A8E-03D5-11D3-B995-00A0C9AD54B5}\LocalServer32"
HKCR,"CLSID\{0EF91A8E-03D5-11D3-B995-00A0C9AD54B5}\ProgID"
HKCR,"CLSID\{0EF91A8E-03D5-11D3-B995-
00A0C9AD54B5}\VersionIndependentProgID"
HKCR,"CLSID\{0EF91A8E-03D5-11D3-B995-00A0C9AD54B5}"

;igfxdiag.ICUIAGP

HKCR, "Interface\{E0BA4EE2-03D5-11d3-B995-00A0C9AD54B5}\NumMethods"
HKCR, "Interface\{E0BA4EE2-03D5-11d3-B995-00A0C9AD54B5}\ProxyStubClsid32"
HKCR, "Interface\{E0BA4EE2-03D5-11d3-B995-00A0C9AD54B5}"

;igfxdiag.ICUIDiagController

HKCR,"Interface\{48E57D01-53BD-11D3-8EE0-00A0C984F371}\NumMethods"
HKCR,"Interface\{48E57D01-53BD-11D3-8EE0-00A0C984F371}\ProxyStubClsid32"
HKCR,"Interface\{48E57D01-53BD-11D3-8EE0-00A0C984F371}"

;igfxdiag.ICUIDriverInfo

HKCR, "Interface\{C562A581-4989-11D3-8EE0-00A0C984F371}\ProxyStubClsid32"
HKCR, "Interface\{C562A581-4989-11D3-8EE0-00A0C984F371}\NumMethods"
HKCR, "Interface\{C562A581-4989-11D3-8EE0-00A0C984F371}"

;igfxdiag.ICUIMonitor

HKCR,"Interface\{E0BA4EE3-03D5-11D3-B995-00A0C9AD54B5}\NumMethods"
HKCR,"Interface\{E0BA4EE3-03D5-11D3-B995-00A0C9AD54B5}ProxyStubClsid32"
HKCR,"Interface\{E0BA4EE3-03D5-11D3-B995-00A0C9AD54B5}"

;igfxdiag.ICUIMonitor2

HKCR,"Interface\{7D8A8461-25C2-11D4-ACA5-00A0C9AD5629}\ProxyStubClsid32"
HKCR,"Interface\{7D8A8461-25C2-11D4-ACA5-00A0C9AD5629}\NumMethods"
HKCR,"Interface\{7D8A8461-25C2-11D4-ACA5-00A0C9AD5629}"

;igfxdiag.ICUIPCI

HKCR,"Interface\{E0BA4EE1-03D5-11D3-B995-00A0C9AD54B5}\NumMethods"
HKCR,"Interface\{E0BA4EE1-03D5-11D3-B995-00A0C9AD54B5}\ProxyStubClsid32"
HKCR,"Interface\{E0BA4EE1-03D5-11D3-B995-00A0C9AD54B5}"

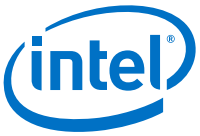
;igfxdiag.ICUIReport

HKCR,"Interface\{E0BA4EE5-03D5-11D3-B995-00A0C9AD54B5}\NumMethods"
HKCR,"Interface\{E0BA4EE5-03D5-11D3-B995-00A0C9AD54B5}ProxyStubClsid32"
HKCR,"Interface\{E0BA4EE5-03D5-11D3-B995-00A0C9AD54B5}"

;igfxdiag.ICUITests

HKCR,"Interface\{E0BA4EE4-03D5-11D3-B995-00A0C9AD54B5}\NumMethods"
HKCR,"Interface\{E0BA4EE4-03D5-11D3-B995-00A0C9AD54B5}ProxyStubClsid32"
HKCR,"Interface\{E0BA4EE4-03D5-11D3-B995-00A0C9AD54B5}"

;igfxdiag.IDiagServices
```



```
HKCR,"Interface\{0EF91A8D-03D5-11D3-B995-00A0C9AD54B5}\NumMethods"
HKCR,"Interface\{0EF91A8D-03D5-11D3-B995-00A0C9AD54B5}\ProxyStubClsid32"
HKCR,"Interface\{0EF91A8D-03D5-11D3-B995-00A0C9AD54B5}"

;igfxdiag.IDiagServices2

HKCR,"Interface\{1D775861-25C6-11D4-ACA5-00A0C9AD5629}\NumMethods"
HKCR,"Interface\{1D775861-25C6-11D4-ACA5-00A0C9AD5629}\ProxyStubClsid32"
HKCR,"Interface\{1D775861-25C6-11D4-ACA5-00A0C9AD5629}"

;igfxhk.Hotkey

HKCR,"igfxhk.HotKey\CLSID"
HKCR,"igfxhk.HotKey\CurVer"
HKCR,"igfxhk.HotKey"
HKCR,"igfxhk.HotKey.1\CLSID"
HKCR,"igfxhk.HotKey.1"
HKCR,"CLSID\{235CC099-CFB4-44D9-8228-
270FEE479D8A}\InProcServer32\ThreadingModel"
HKCR,"CLSID\{235CC099-CFB4-44D9-8228-270FEE479D8A}\InProcServer32"
HKCR,"CLSID\{235CC099-CFB4-44D9-8228-270FEE479D8A}\ProgID"
HKCR,"CLSID\{235CC099-CFB4-44D9-8228-
270FEE479D8A}\VersionIndependentProgID"
HKCR,"CLSID\{235CC099-CFB4-44D9-8228-270FEE479D8A}"

;igfxdgps.dll entry

HKCR,"CLSID\{48E57D01-53BD-11D3-8EE0-
00A0C984F371}\InProcServer32\ThreadingModel"
HKCR,"CLSID\{48E57D01-53BD-11D3-8EE0-00A0C984F371}\InProcServer32"
HKCR,"CLSID\{48E57D01-53BD-11D3-8EE0-00A0C984F371}"

; Remove HKLM\Software\Microsoft\Windows\Currentversion\Run CUI entries
HKLM,"SOFTWARE\Microsoft\Windows\CurrentVersion\Run","HotKeysCmds"
HKLM,"SOFTWARE\Microsoft\Windows\CurrentVersion\Run","Persistence"
HKLM,"SOFTWARE\Microsoft\Windows\CurrentVersion\Run","igfxtray"
HKLM,"SOFTWARE\Microsoft\Windows\CurrentVersion\Run","igfxhkcmd"
HKLM,"SOFTWARE\Microsoft\Windows\CurrentVersion\Run","igfxpers"

[igfx_Service_Inst]
ServiceType    = 1               ; SERVICE_KERNEL_DRIVER
StartType      = 3               ; SERVICE_DEMAND_START
ErrorControl   = 0               ; SERVICE_ERROR_IGNORE
LoadOrderGroup = Video
ServiceBinary  = %12%\igdkmd32.sys

[CP_HECI_Service_Inst]
DisplayName    = "Intel(R) Content Protection HECI Service"
Description    = "Intel(R) Content Protection HECI Service - enables
communication with the Content Protection FW"
ServiceType    = 0x00000010      ; SERVICE_WIN32_OWN_PROCESS
StartType      = 2               ; SERVICE_AUTO_START
ErrorControl   = 1              ; SERVICE_ERROR_NORMAL
ServiceBinary  = %11%\IntelCpHeciSvc.exe
```

```
;
; DX11 Capable SKUS
;
[igfx_SoftwareDX11Settings]
HKR,, InstalledDisplayDrivers,  %REG_MULTI_SZ%, igdumdim32, igd10iumd32,
igd10iumd32
HKR,, UserModeDriverName,       %REG_MULTI_SZ%, igdumdim32.dll,
igd10iumd32.dll, igd10iumd32.dll

;=========================================================================
; Common Device Settings
;=========================================================================
[igfx_SoftwareCommonSettings]
HKR,, UserModeDriverGUID,       %REG_SZ%, "{6C4BE3D5-831A-42ED-AA62-
2AEB34C8CBA4}"
HKR,, MultifunctionSupported,   %REG_DWORD%,    1
HKR,, VgaCompatible,            %REG_DWORD%,    0
HKR,, NativeResolution,         %REG_DWORD%,    1
HKR,, NativeBPP,                %REG_DWORD%,    1
HKR,, ConfigID,                 %REG_DWORD%,    0
HKR,, PC_Release_Major,         %REG_DWORD%,    15          ;
HKR,, PC_Release_Minor,         %REG_DWORD%,    00          ;
HKR,, BIOSHPDSupport,           %REG_DWORD%,    00
HKR,, EnableFakeTV,             %REG_DWORD%,    01
HKR,, EnableFakeCRT,            %REG_DWORD%,    01
HKR,, IntelDefaultPers,         %REG_DWORD%,    00
HKR,, ApplyNativeMode,          %REG_DWORD%,    00
HKR,, MPOFeatureEnable,         %REG_DWORD%,    01

; Overlay Specific
HKR,, Disable_OverlayDSQualityEnhancement,  %REG_DWORD%,     0

; Rotation Specific
HKR,,   Display1_EnableRotation,    %REG_DWORD%,    0x1
HKR,,   Display1_RotationCaps,      %REG_DWORD%,    0x7     ;Portrait,
Inverted Landscape, Inverted Portrait
HKR,,   Display2_RotationCaps,      %REG_DWORD%,    0x7     ;Portrait,
Inverted Landscape, Inverted Portrait
HKR,,   Display1_IndependentRotation,    %REG_DWORD%,    0x00
HKR,,   Display1_EnableIndependentRotation,    %REG_DWORD%,    0x00
HKR,,   Display1_EnableIDDC_WA,               %REG_DWORD%,    0x00
HKR,,   RotationSPLCase,    %REG_DWORD%,    0x00
HKR,,   SmoothRotationSupport,    %REG_DWORD%,    0x00
HKR,,   Display_EnableSF,    %REG_DWORD%,    0x00
HKR,,   Display_ReservePFForLFP,    %REG_DWORD%,    0x00

; Event Manager Specific
;HKR,,    DisplayPriority,        0x00000001,     0x08, 0x80, 0x01, 0x10,
0x04, 0x40, 0x02, 0x20 ;descending
;HKR,,    EDIDDefaultXX,         %REG_DWORD%,    0x320
;HKR,,    EDIDDefaultYY,         %REG_DWORD%,    0x258
;HKR,,    EDIDDefaultRR,         %REG_DWORD%,    0x3c
;HKR,,    EDIDDefaultBPP,         %REG_DWORD%,    0x20
;HKR,,    LegacyDefaultXX,         %REG_DWORD%,    0x320
;HKR,,    LegacyDefaultYY,         %REG_DWORD%,    0x258
;HKR,,    LegacyDefaultRR,         %REG_DWORD%,    0x3c
```

```
;HKR,,    LegacyDefaultBPP,        %REG_DWORD%,    0x20

HKLM,"SYSTEM\CurrentControlSet\Control\GraphicsDrivers",UseXPModel,%REG_D
WORD%,0
HKLM,"SYSTEM\CurrentControlSet\Control\GraphicsDrivers\Scheduler",EnableP
reemption,%REG_DWORD%,1

[igfx_MSI_HardwareDeviceSettings]   ; MSI Support
HKR, "Interrupt Management", 0x00000010
HKR, "Interrupt Management\MessageSignaledInterruptProperties",
0x00000010
HKR, "Interrupt Management\MessageSignaledInterruptProperties",
MSISupported, 0x00010001, 1

[igfx_RemoveDeviceSettings]
HKR,, VgaCompatible
HKR,, NativeResolution
HKR,, NativeBPP
HKR,, ConfigID
HKR,, PC_Release_Major
HKR,, PC_Release_Minor
HKR,, ApplyNativeMode
HKR,, MPOFeatureEnable

; Overlay Specific
HKR,, Disable_OverlayDSQualityEnhancement

; Rotation Specific
HKR,,   Display1_EnableRotation
HKR,,   Display1_RotationCaps
HKR,,   Display2_RotationCaps
HKR,,   Display1_IndependentRotation
HKR,,   Display1_EnableIndependentRotation
HKR,,   Display1_EnableIDDC_WA
HKR,,   RotationSPLCase
HKR,,   SmoothRotationSupport

; Event Manager Specific
HKR,,    DisplayPriority
HKR,,     EDIDDefaultXX
HKR,,    EDIDDefaultYY
HKR,,    EDIDDefaultRR
HKR,,    EDIDDefaultBPP
HKR,,    LegacyDefaultXX
HKR,,    LegacyDefaultYY
HKR,,    LegacyDefaultRR
HKR,,    LegacyDefaultBPP
HKR,,    AStatePersistence
HKR,,    PerUserPersistence
HKR,,    UseBIOSDataforDock
HKR,,    HpDock
HKR,,    TMM_Active
HKR,,    RequestSig
HKR,,    RequestedXRes
HKR,,    RequestedYRes
```

```
HKR,,    RequestedBPP
HKR,,    RequestedRate

HKR,,    HotKeyPersistence
HKR,,    HotKeyPersistMDS
HKR,,    LidPersistence
HKR,,    DockPersistence
HKR,,    HotPlugPersistence
HKR,,    PowerPersistence
HKR,,    EdidPersistence
HKR,,    LFPAlwaysPrimary
HKR,,    OpenGLInstalled

;++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
;  Common RegKey Sections
;  Many of the legacy RegKey sections have been combined into single
sections called by
;  the Device Sections. The original old RegKey section names are
preserved for
;  documentation. Example  ; <-NonEDIDMode_AddSwSettings-> is the comment
for
;  [NonEDIDMode_AddSwSettings]
;  DO NOT touch these. DO NOT try to make them work as before.
;++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
;========================================================================
;  Common AddReg Section
;========================================================================
[Common_AddSwSettings]

; <-NonEDIDMode_AddSwSettings->
HKR,, TotalDTDCount, %REG_DWORD%, 0      ; This shows number of DTDs to be
used. ;  0-- Disable the feature.
;Following keys have 20 bytes (18 byte DTD + 2 Byte flags)
;the 2 bytes are as follows
; First byte
;Bit 0 -> 8Bpp Support Bit; 0-Disabled, 1-Enabled
;Bit 1 -> 16Bpp Support Bit; 0-Disabled, 1-Enabled
;Bit 2 -> 32Bpp Support Bit; 0-Disabled, 1-Enabled
;Bit 3 -> Bit 3 Reserved for any new BPP mask.
;Bit 4 -> Bit for DFP Support ; 0-Disabled, 1-Enabled
;Bit 5 -> Bit for CRT Support ; 0-Disabled, 1-Enabled
;Bit 6-7 -> Bits 7-6 Reserved for Device Masks, must be 0
;Second Byte
;Bit 0 -> DTD timing is added forcefully, even if timing is present in
EDID.
;Bit 1-7 -> Reserved Bits for any new masks
HKR,, DTD_1,%REG_BINARY%,
01,1D,80,18,71,1C,16,20,58,2C,1A,00,00,00,00,00,00,86,37,01
;1920x1080@60...Interlaced
HKR,, DTD_2, %REG_BINARY%,
01,1D,80,D0,72,1C,16,20,10,2C,1A,80,00,00,00,00,00,86,37, 01
;1920x1080@50...Interlaced
HKR,, DTD_3,%REG_BINARY%,
01,1D,00,BC,52,D0,1E,20,B8,28,25,40,00,00,00,00,00,04,37, 01
;1280x720@50....Non-interlaced
```

```
HKR,, DTD_4, %REG_BINARY%,
01,1D,00,72,51,D0,1E,20,6E,28,25,00,00,00,00,00,00,06,37,01
;1280x720@60....Non-interlaced
HKR,, DTD_5,%REG_BINARY%, 00, 00, 00 ,00, 00, 00,00, 00, 00,00, 00, 00,00,
00, 00,00, 00, 00,00, 00    ;Fifth DTD

; <-CRTHotPlugDefaultVrefVoltage_AddSwSettings->
HKR,, Display1_EnableCRTHotPlugDefaultVrefVoltage,    %REG_DWORD%, 1
; 1 - Enable(Default Value) and 0 - Disable(Customized Value)

; <-DelayedDetectionForDP_AddSwSettings->
HKR,, DelayedDetectionForDP,%REG_DWORD%, 500          ; Delay in ms Range
- 0 - 1000

; <-DelayedDetectionForHDMI_AddSwSettings->
HKR,, DelayedDetectionForHDMI,%REG_DWORD%, 1000      ; Delay in ms Range -
0 - 1000

; <-EnableHDMIUnderScan_AddSwSettings->
HKR,, EnableHDMIUnderScan,%REG_DWORD%, 1        ; 1 - UnderScan and 0 -
OverScan

;    OPTIONS FOR HOTPLUG THROUGH INF
;2 - Apply selected logic selected in VBT
;0 - Disable Hot Plug
;1 - Enable Hot Plug
;NOTE: Enable "INF_VBT_Override_EnableFeature" flag to use below given INF
entries

; <-INFHotPlug_AddSwSettings->
HKR,, HotPlug_DVO_SDVO,%REG_DWORD%, 2
HKR,, HotPlug_CRT,%REG_DWORD%, 2

; <-OEMStaticMode_AddSwSettings->
HKR,, TotalStaticModes, %REG_DWORD%, 0    ; This shows number of Static
modes to be used.
;TotalStaticModes = 0-->Disable the feature.
;Following keys have 8 bytes:
; 2B XRes + 2B YRes
; + 2B RRMask (Bit 0 - 60, 1 -70, 2 - 72, 3 - 75, 4 - 85,5 - 100,6 - 120,7-
15 reserved)
; + 1B BppMask(Bit 0 - 8bpp,1 - 16bpp,2 - 32bpp, 3-7 reserved)
; + 1B reserved.
; all values in Hex; l->low byte, h->high byte
;Examples:
;                                    xl xh yl yh rl rh bp Rv
;HKR,, STATIC_MODE_1,%REG_BINARY%, 20,03,58,02,03,00,07,0F ;8x6 60,70
;HKR,, STATIC_MODE_2,%REG_BINARY%, 20,03,58,02,20,00,04,0F ;8x6 100 :
32bpp

; <-MediaRefreshRateMode_AddSwSettings->
HKR,, MediaRefreshRateMask, %REG_DWORD%, 0 ; Mask to enable media refresh
rates BIT0 - LFP BIT1-7 :Reserved

; <-HDMI_VSI_AddSwSettings->
HKR,, SPDIFVendorName,%REG_SZ%, "Intel" ; max 8 characters
HKR,, SPDIFVendorDesc,%REG_SZ%, "9xxxx" ; max 16 characters
```

```
HKR,, HDMI_OptionalIFPriority,%REG_DWORD%, 0x21 ; default to priority 1
for SPD Infoframe and priority 2 for VS Infoframe
HKR,, HDMI_SupportCEA861D,%REG_DWORD%, 0 ;To enable support for 861D spec,
1-Support IT Content and RGB Quantization, 0- No 861D support. Default to
0.

; <-Underscan_AddSwSettings->
;HDMI
HKR,, Display1_AddUnderscanPercentageHDMI,%REG_DWORD%, 0  ; 0 - default
7.5% under scan and OEM's can give under scan like 8,9 an 10 ..

; <-IncFixedSegWA_AddSwSettings->
HKR,, IncreaseFixedSegment,%REG_DWORD%, 0   ; 0 - disabled, 1- enabled

; <-DeepColorHDMI_AddSwSettings->
HKR,, DeepColorHDMIDisable,%REG_DWORD%, 0 ; 0- Enable Deep Color, 1 -
Disable Deep Color

; <-WGFeature_AddSwSettings->
HKR,, WideGamutFeatureEnable,%REG_DWORD%, 0x00 ; 0x01- Enable for LFP,
0x02 - Enable for DP, 0x04 - Enable for HDMI...
; When Wide Gamut feature is enabled, Hue and Saturation feature is
disabled and xvYCC / Ycbcr is also disabled on HDMI

;<-NarrowGamut_AddSwSettings->
HKR,,   NarrowGamutSplitGammaEnable,    %REG_DWORD%,    0x00 ;0x1 - Enable
0x0 - Disable
;For Enabling Split Gamma in Narrow Gamut Feature , by default its
disabled

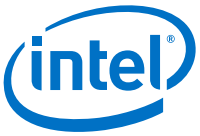
; <-PdTogglingTimer_AddSwSettings ->
HKR,, PdTogglingTimerValue,%REG_DWORD%, 0xBF ;increasing the delay value.

; <-eDPNoFLT_AddSwSettings->
;If this Registry is set to 1 then it will ignore the Fast Link Training
and will always do Normal Link Training everytime
HKR,, NoFastLinkTrainingForeDP, %REG_DWORD%, 1

; <-igfx_TPV_AddSwSettings->
HKR,, TPVSolutionEnabled,       %REG_DWORD%,    1
HKR,, MAXViews,                 %REG_DWORD%,    2
HKR,, MAXDevicesInView,         %REG_DWORD%,    2
HKR,, MAXIntelDevicesActive,    %REG_DWORD%,    2
HKR,, MAXOtherDevicesActive,    %REG_DWORD%,    4
HKR,, IsExtCloneSuppt,          %REG_DWORD%,    0

; <-igfx_TPV_3Pipe_AddSwSettings->
HKR,, TPVSolutionEnabled,       %REG_DWORD%,    1
HKR,, MAXViews,                 %REG_DWORD%,    3
HKR,, MAXDevicesInView,         %REG_DWORD%,    3
HKR,, MAXIntelDevicesActive,    %REG_DWORD%,    3
HKR,, MAXOtherDevicesActive,    %REG_DWORD%,    4
HKR,, IsExtCloneSuppt,          %REG_DWORD%,    0

; <-AsyncFlips_AddSwSettings->
HKR,, Display1_DisableAsyncFlips,%REG_DWORD%, 0         ; 1 - Disable and
0 - Enable
```



```
; <-DisableCommonUserInterface_AddSwSettings->
;If this Registry key is set to 1 then CUI will not Loaded.
HKR,, CUINotRequired, %REG_DWORD%, 0

; <-Enable4KDisplay_AddSwSettings->
HKR,, Enable4KDisplay,%REG_DWORD%, 0x01 ; 0x01- Enables 4K Display
support, 0x00 - Disable
; bit 0 is for support and bit 1 is for enabling.
HKR,, CollageModeFeature,%REG_DWORD%, 0x01; 0x01- Supports Native
Collage, 0x00-Doesnt support, 0x11- Enables Native Collage, 0x01-disables


;=================================================================
; Common Mobile AddReg Section
;=================================================================
[Common_Mobile_AddSwSettings]
; <-PNM_AddSwSettings ->
HKR,, PNMClkDeviation, %REG_DWORD%, 0   ;Clock deviation value which is
multiplied by 10.
HKR,, PNMFlags, %REG_DWORD%, 0   ; Bit0:Downward Deviation, Bit1: Upward
Deviation. Bit2-31: Reserved.

; <-General_AddSwSettings->
HKR,, ModeEnumerationPreference,%REG_DWORD%, 0xFFFFFFFF     ; BitMask for
Displays. If Set to 1, it indicates OEM Mode is preferred over EDID.
; Default Value is OEM is preferred over EDID
; Bit 0- CRT:Bit 2- DFP:Bit 1 and 3 reserved.

; <-PwrCons_DPS_AddSwSettings->
HKR,, DPSCheckboxDefault,%REG_DWORD%, 0x1
HKR,, DPSBaseLoRRValue,%REG_DWORD%, 0x0
HKR,, Display1_DPSPanel_Type,%REG_DWORD%, 0xFF ;Normal/Static DRRS = 0,
Seamless = 2, or Disable INF option = 0xFF
HKR,, DPSMotionArtifactMitigation,%REG_DWORD%, 0x1
HKR,, SupportForStaticDRRS,%REG_DWORD%, 0x0

; <-DynamicMediaRefreshRate_AddSwSettings->
HKR,, MediaRefreshRateSupport,%REG_DWORD%, 0x3F     ;  bit7: reserved(0),
bit6: reserved(0), bit5: 60 Hz , bit4: 50 Hz
                                                    ;  bit3: 48 Hz, bit2:
30 Hz, bit1: 25 Hz, bit0: 24 Hz
; <-IntLVDSSwing_AddSwSettings->
;0x00 - Medium - Data and Clk Swing set to 298 mV
;0x01 - High - Data and Clk Swing set to 320 mV
;0x02 - Low1 - Data and Clk Swing set to 144 mV
;0x04 - Low2 - Data and Clk Swing set to 170 mV
;0x08 - Low3 - Data and Clk Swing set to 196 mV
;0x10 - Low4 - Data and Clk Swing set to 220 mV
;0x20 - Low5 - Data and Clk Swing set to 247 mV
;0x40 - Low6 - Data and Clk Swing set to 273 mV
HKR,, IntLVDSSwingSetting,%REG_DWORD%, 0x00

;=================================================================
; Common Desktop AddReg Section
;=================================================================
```

```
[Common_DT_AddSwSettings]

; <-FakeEDID_AddSwSettings->
;EDID modified with private DTD for 357MHz max pixel rate, for eDP on Port
D
HKR,,
FakeEDID_14_0_af0d_1723,%REG_BINARY%,0,FF,FF,FF,FF,FF,FF,0,D,AF,23,17,0,0
,0,0,2,15,1,4,95,26,15,78,2,D1,F5,93,5D,59,90,26,1D,50,54,0,0,0,1,1,1,1,1
,1,1,1,1,1,1,1,1,1,1,1,1D,36,80,A0,70,38,1E,40,2E,1E,24,0,7E,D7,10,0,0,18
,0,0,0,5,0,74,8B,80,50,70,38,97,41,8,40,6,0,0,0,0,0,FE,0,43,4D,49,A,20,20
,20,20,20,20,20,20,0,0,0,FE,0,4E,31,37,33,48,48,46,2D,45,32,31,20,20,0
,39
HKR,, ReadEDIDFromRegistry, %REG_DWORD%, 1

;=========================================================================
; Common DelReg Section
;=========================================================================
[Common_DelSwSettings]

; <-NonEDIDMode_DelSwSettings->
HKR,, TotalDTDCount
HKR,, DTD_1
HKR,, DTD_2
HKR,, DTD_3
HKR,, DTD_4
HKR,, DTD_5

; <-CRTHotPlugDefaultVrefVoltage_DelSwSettings->
HKR,, Display1_EnableCRTHotPlugDefaultVrefVoltage

; <-DelayedDetectionForDP_DelSwSettings->
HKR,, DelayedDetectionForDP

; <-DelayedDetectionForHDMI_DelSwSettings->
HKR,, DelayedDetectionForHDMI

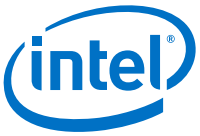
; <-EnableHDMIUnderScan_DelSwSettings->
HKR,, EnableHDMIUnderScan

; <-INFVBTOverride_DelSwSettings->
HKR,, INF_VBT_Override_EnableFeature

; <-INFHotPlug_DelSwSettings->
HKR,,HotPlug_DVO_SDVO
HKR,,HotPlug_CRT

; <-OEMStaticMode_DelSwSettings->
;HKR,, STATIC_MODE_1
;HKR,, STATIC_MODE_2

; <-MediaRefreshRateMode_DelSwSettings->
HKR,, MediaRefreshRateMask
; <-HDMI_VSI_DelSwSettings
HKR,, SPDIFVendorName
HKR,, SPDIFVendorDesc
HKR,, HDMI_OptionalIFPriority
```



```
HKR,, HDMI_SupportCEA861D

; <-HotPlug_DelSwSettings->
HKR,, Display1_DVIHotPlugWAFlag

; <-Underscan_DelSwSettings->
HKR,, Display1_AddUnderscanPercentageHDMI

; <-IncFixedSegWA_DelSwSettings->
HKR,, IncreaseFixedSegment

; <-DeepColorHDMI_DelSwSettings->
HKR,, DeepColorHDMIDisable

; <-WGFeature_DelSwSettings->
HKR,, WideGamutFeatureEnable

;<-NarrowGamut_DelSwSettings>
HKR,,   NarrowGamutSplitGammaEnable

; <-PdTogglingTimer_DelSwSettings->
HKR,, PdTogglingTimerValue

; <-DualLFPRCR_DelSwSettings->
HKR,, DualLFPEnable

; <-eDPNoFLT_DelSwSettings->
HKR,, NoFastLinkTrainingForeDP

; <-igfx_TPV_DelSwSettings->
HKR,, TPVSolutionEnabled
HKR,, MAXViews
HKR,, MAXDevicesInView
HKR,, MAXIntelDevicesActive
HKR,, MAXOtherDevicesActive
HKR,, IsExtCloneSuppt


; <-igfx_TPV_3Pipe_DelSwSettings->
HKR,, TPVSolutionEnabled
HKR,, MAXViews
HKR,, MAXDevicesInView
HKR,, MAXIntelDevicesActive
HKR,, MAXOtherDevicesActive
HKR,, IsExtCloneSuppt

; <-AsyncFlips_DelSwSettings->
HKR,, Display1_DisableAsyncFlips

; <-DisableCommonUserInterface_DelSwSettings->
HKR,, CUINotRequired

; <-Enable4KDisplay_DelSwSettings->
HKR,, Enable4KDisplay
HKR,, CollageModeFeature
```

```
;=========================================================================
; Common Mobile DelReg Section
;=========================================================================
[Common_Mobile_DelSwSettings]
; <-PNM_DelSwSettings->
HKR,, PNMClkDeviation
HKR,, PNMFlags

; <-PwrCons_DPS_DelSwSettings->
HKR,, DPSCheckboxDefault
HKR,, DPSControlMode
HKR,, DPSBaseLoRRValue
HKR,, Display1_DPSPanel_Type
HKR,, DPSMotionArtifactMitigation
HKR,, SupportForStaticDRRS

; <-DynamicMediaRefreshRate_DelSwSettings
HKR,, MediaRefreshRateSupport

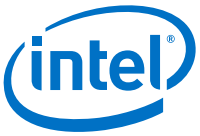
; <-FakeISV_DelSwSettings->
HKR,, FakeISV

; <-IntLVDSSwing_DelSwSettings->
HKR,, IntLVDSSwingSetting

; <-General_DelSwSettings->
HKR,, ModeEnumerationPreference

;=========================================================================
; Common Desktop DelReg Section
;=========================================================================
[Common_DT_DelSwSettings]
; <-FakeEDID_DelSwSettings->
HKR,, FakeEDID_14_0_af0d_1723
HKR,, ReadEDIDFromRegistry

;=========================================================================
;  Device Specific RegKeys Section
;
; All Device Specific RegKeys go in this section in the standard [ section
name ] format
; and are called explicitly from the device sections.
;=========================================================================
[Enable3DContexts_IVBD0_AddSwSettings]
; Workstation apps settings
HKR,, @acad.exe, %REG_DWORD%, 1
HKR,, @MstnBenchmark.exe, %REG_DWORD%, 1
; Game apps settings
HKR,, SupportAIL, %REG_DWORD%, 1
HKR,, @fifa.exe, %REG_DWORD%, 1
HKR,, @mnc.exe, %REG_DWORD%, 1
HKR,, @bf3.exe, %REG_DWORD%, 1
HKR,, @bf2.exe, %REG_DWORD%, 1
HKR,, @CivilizationV_DX11.exe, %REG_DWORD%, 1
```



```
HKR,, @NFS11.exe, %REG_DWORD%, 1
HKR,, @SSFIV.exe, %REG_DWORD%, 1
HKR,, @CoJGunslinger.exe, %REG_DWORD%, 1
HKR,, @F1_2012.exe, %REG_DWORD%, 1
HKR,, @Dishonored.exe, %REG_DWORD%, 1
HKR,, @AAGame.exe, %REG_DWORD%, 1
HKR,, @gta_sa.exe, %REG_DWORD%, 1

[Enable3DContexts_IVBD0_DelSwSettings]
; Workstation apps settings
HKR,, @acad.exe
HKR,, @MstnBenchmark.exe
; Game apps settings
HKR,, SupportAIL
HKR,, @fifa.exe
HKR,, @mnc.exe
HKR,, @bf3.exe
HKR,, @bf2.exe
HKR,, @CivilizationV_DX11.exe
HKR,, @NFS11.exe
HKR,, @SSFIV.exe
HKR,, @CoJGunslinger.exe
HKR,, @F1_2012.exe, %REG_DWORD%
HKR,, @Dishonored.exe, %REG_DWORD%
HKR,, @AAGame.exe, %REG_DWORD%
HKR,, @gta_sa.exe, %REG_DWORD%

[Enable3DContexts_IVBM0_AddSwSettings]
; Game apps settings
HKR,, SupportAIL, %REG_DWORD%, 1
HKR,, @fifa.exe, %REG_DWORD%, 1
HKR,, @mnc.exe, %REG_DWORD%, 1
HKR,, @bf3.exe, %REG_DWORD%, 1
HKR,, @bf2.exe, %REG_DWORD%, 1
HKR,, @CivilizationV_DX11.exe, %REG_DWORD%, 1
HKR,, @NFS11.exe, %REG_DWORD%, 1
HKR,, @SSFIV.exe, %REG_DWORD%, 1
HKR,, @CoJGunslinger.exe, %REG_DWORD%, 1
HKR,, @F1_2012.exe, %REG_DWORD%, 1
HKR,, @Dishonored.exe, %REG_DWORD%, 1
HKR,, @AAGame.exe, %REG_DWORD%, 1
HKR,, @gta_sa.exe, %REG_DWORD%, 1

[Enable3DContexts_IVBM0_DelSwSettings]
; Game apps settings
HKR,, SupportAIL
HKR,, @fifa.exe
HKR,, @mnc.exe
HKR,, @bf3.exe
HKR,, @bf2.exe
HKR,, @CivilizationV_DX11.exe
HKR,, @NFS11.exe
HKR,, @SSFIV.exe
HKR,, @CoJGunslinger.exe
HKR,, @F1_2012.exe, %REG_DWORD%
```

```
HKR,, @Dishonored.exe, %REG_DWORD%
HKR,, @AAGame.exe, %REG_DWORD%
HKR,, @gta_sa.exe, %REG_DWORD%

[XVYCCFeature_AddSwSettings]
HKR,, XVYCCFeatureEnable,%REG_DWORD%, 0x01 ; 0x00- Disable, 0x01 -
Enable...
                        ; When XVYCC feature is enabled, on corresponding
display Hue and Saturation feature is disabled
[XVYCCFeature_DelSwSettings]
HKR,, XVYCCFeatureEnable

[AUDIOWOVIDEOSupport_AddSwSettings]
HKR,, AudioWoVideoSupport,%REG_DWORD%, 0x01 ; 0x01- Enable, 0x00 - Disable
HKR,, AudioWoVideoStatus,%REG_DWORD%, 0x00 ; 0x01- Enable, 0x00 - Disable

[AUDIOWOVIDEOSupport_DelSwSettings]
HKR,, AudioWoVideoSupport
HKR,, AudioWoVideoStatus

[AUDIOPERSISTENCE_AddSwSettings]
HKR,, DefaultAudioPolicyForClone,%REG_DWORD%, 0x01  ; 0x01- Cloned Audio
Policy, 0x02 - Independent Audio Policy
HKR,, DefaultAudioPolicyForEDS,%REG_DWORD%, 0x02     ; 0x01- Cloned Audio
Policy, 0x02 - Independent Audio Policy
HKR,, DriverUpgradeKey,%REG_DWORD%, 0x01                  ; 0x01 - Driver
Upgrade , Other values - Reboot
HKR,, AudioPointAggregationDelay,%REG_DWORD%, 0x0F ; Delay in ms
HKR,, BasicAudioSupportForHDMI,%REG_DWORD%, 0x0    ; Default is 0. OEMs to
make it one to explicitly check for this bit.
HKR,, AudioControllerEnableDelay,%REG_DWORD%, 0x1F4 ;Delay in ms
HKR,, AudioDisableInCSSupport,%REG_DWORD%, 0x0 ; 0x0 - No audio disabling
in CS. 0x1 - OEMS have to explicitly set it to 1.

[AUDIOPERSISTENCE_DelSwSettings]
HKR,, DefaultAudioPolicyForClone
HKR,, DefaultAudioPolicyForEDS
HKR,, DriverUpgradeKey
HKR,, AudioPointAggregationDelay
HKR,, BasicAudioSupportForHDMI
HKR,, AudioControllerEnableDelay
HKR,, AudioDisableInCSSupport

[AUDIO_DT_WA_AddSwSettings]
HKR,, KeepAudioHwEnableInDT,%REG_DWORD%, 0x00 ; 0x01- Enable, 0x00 -
Disable

[AUDIO_DT_WA_DelSwSettings]
HKR,, KeepAudioHwEnableInDT

[AvoidPPSOutsideModeSet_AddSwSettings]
HKR,, AvoidPPSOutsideModeSet, %REG_DWORD%, 0x1

[AvoidPPSOutsideModeSet_DelSwSettings]
HKR,, AvoidPPSOutsideModeSet
```

```
[PwrCons_IVB_AddSwSettings]
HKR,, FeatureTestControl,%REG_DWORD%, 0xF000

[DisplayOptimization_IVB_AddSwSettings]
;BIT0: Fastmodeset,  BIT1 : T3 Optimization, BIT2 : Power off optimization
HKR,, DisplayOptimizations, %REG_DWORD%, 0x01

[DisplayDPP_IVB_AddSwSettings]
HKLM,"SOFTWARE\Intel\IGFX\DPP","SupportedDPP",%REG_DWORD%, 0x00

[DisplayDPP_IVB_DelSwSettings]
HKLM,"SOFTWARE\Intel\IGFX\DPP"

[PwrCons_VLV2_AddSwSettings]
HKR,, FeatureTestControl,%REG_DWORD%, 0xF000

[DisplayOptimization_VLV2_AddSwSettings]
;BIT0: Fastmodeset,  BIT1 : T3 Optimization, BIT2 : Power off optimization
HKR,, DisplayOptimizations, %REG_DWORD%, 0x19

[AsyncFlips_VLV2_AddSwSettings]
HKR,, Display1_DisableAsyncFlips,%REG_DWORD%, 1          ; 1 - Disable and
0 - Enable

[AsyncFlips_VLV2_DelSwSettings]
HKR,, Display1_DisableAsyncFlips

[PwrCons_HSW_AddSwSettings]
HKR,, FeatureTestControl,%REG_DWORD%, 0xE200  ; Enable FBC, BLC, DPST,
ALS, DRRS, RS, BLC DDI, Turbo, CxSR, PSR, DFPS

[DisplayOptimization_HSW_AddSwSettings]
;BIT0: Fastmodeset,  BIT1 : T3 Optimization, BIT2 : Power off optimization
HKR,, DisplayOptimizations, %REG_DWORD%, 0x1d

[DisplayDPP_HSW_AddSwSettings]
HKLM,"SOFTWARE\Intel\IGFX\DPP","SupportedDPP",%REG_DWORD%, 0x01
HKLM,"SOFTWARE\Intel\IGFX\DPP","SupportedCustomLUT",%REG_DWORD%, 0x01
HKLM,"SOFTWARE\Intel\IGFX\DPP","EnabledDPP",%REG_DWORD%, 0x00
HKLM,"SOFTWARE\Intel\IGFX\DPP","EnabledManualMode",%REG_DWORD%, 0x00
HKLM,"SOFTWARE\Intel\IGFX\DPP","AmbientKelvin",%REG_DWORD%, 0x1964
;Default value 6500
HKLM,"SOFTWARE\Intel\IGFX\DPP","AmbientLux",%REG_DWORD%, 0x12C;Default
value 300
HKLM,"SOFTWARE\Intel\IGFX\DPP","Brightness",%REG_DWORD%, 0x64;Default
value 100
HKLM,"SOFTWARE\Intel\IGFX\DPP","SkinTone",%REG_DWORD%, 0x64;Default value
100

[EnableDetachableEDPSupport_HSW_AddSwSettings]
HKR,, EnableDetachableEDPSupport, %REG_DWORD%, 0x00

[DisplayDPP_HSW_DelSwSettings]
HKLM,"SOFTWARE\Intel\IGFX\DPP"

[AlternateScramblerSupport_HSW_AddSwSettings]
```

```
HKR,, AlternateScramblerSupport, %REG_DWORD%, 0x00

[AlternateScramblerSupport_HSW_DelSwSettings]
HKR,, AlternateScramblerSupport

[EnableDetachableEDPSupport_HSW_DelSwSettings]
HKR,, EnableDetachableEDPSupport

[Compliance_HSW_AddSwSettings]
HKR,, EnableDitheringOn6bpc, %REG_DWORD%, 0x00

[Compliance_HSW_DelSwSettings]
HKR,, EnableDitheringOn6bpc


[PwrCons_Generic_DelSwSettings]
HKR,, FeatureTestControl

[PwrCons_UserPolicy_DelSwSettings]
HKR,, ACPowerPolicyVersion
HKR,, DCPowerPolicyVersion
HKR,, PowerAcPolicy
HKR,, PowerDcPolicy
HKR,, ACUserPreferencePolicy
HKR,, DCUserPreferencePolicy
HKR,, ACSettingIndex
HKR,, DCSettingIndex
HKR,, TurboAcPolicy
HKR,, TurboDcPolicy
HKR,, PowerDpstAggressivenessLevel
HKR,, PowerGpsAggressivenessLevel

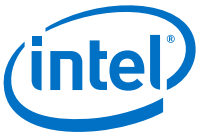
[DisplayOptimization_Generic_DelSwSettings]
HKR,, DisplayOptimizations

;
; Auto Notebook\Slate Convertible Specific Settings
;
[igfx_SLT_NB_AddSwSettings]
;HKR,, ConvertibleSupport,       %REG_DWORD%,    0
;HKR,, KeySltDockSupport,        %REG_DWORD%,    0
;HKR,, KeyButtonSupport,         %REG_DWORD%,    0

[igfx_SLT_NB_DelSwSettings]
;HKR,, ConvertibleSupport
;HKR,, KeySltDockSupport
;HKR,, KeyButtonSupport

;=============================================================================
; End Device Specific RegKeys Section
;=============================================================================

;=============================================================================
; Source file information
;=============================================================================
```



```
[SourceDisksNames]
1 = %DiskId%

[SourceDisksFiles]
igdkmd32.sys = 1
igxpco32.dll = 1
IccLibDll.dll = 1
igfxcmrt32.dll = 1
igfx11cmrt32.dll = 1
igfxcmjit32.dll = 1
iglhxs32.vp = 1
iglhxo32.vp = 1
iglhxc32.vp = 1
iglhxg32.vp = 1
iglhxo32_dev.vp = 1
iglhxc32_dev.vp = 1
iglhxg32_dev.vp = 1
iglhxa32.vp = 1
iglhxa32.cpa = 1
iglhcp32.dll = 1

iglhsip32.dll = 1
IntelCpHeciSvc.exe = 1
igdde32.dll = 1

hccutils.dll = 1
igfxsrvc.dll = 1
igfxsrvc.exe = 1
igfxpph.dll = 1
igfxcpl.cpl = 1
igfxcfg.exe = 1
igfxdev.dll = 1
igfxdo.dll = 1
igfxtray.exe = 1
hkcmd.exe = 1
igfxpers.exe = 1
igfxstarter.exe = 1
igfxext.exe = 1    ; CUI SDK
igfxexps.dll = 1    ; CUI SDK proxy stub
igfxTMM.dll = 1
igfxress.dll=1  ; Generic language resource file
igfxrenu.lrc=1  ; American English

Gfxres.en-US.resources = 1

gfxSrvc.dll = 1    ; 3.0 UI
GfxUIEx.exe = 1
GfxUIEx.exe.config = 1
DPTopologyApp.exe = 1
DPTopologyApp.exe.config = 1
CustomModeApp.exe = 1
CustomModeApp.exe.config = 1
GfxRes.dll = 1
MetroIntelGenericUIFramework.dll = 1
GfxUIHotKeyMenu.exe = 1
```

```
GfxUIHotKeyMenu.exe.config = 1
IGFXDEVLib.dll = 1


ig7icd32.dll = 1



igd10iumd32.dll = 1
igdusc32.dll = 1
igdmd32.dll = 1

igdumdim32.dll = 1
igdail32.dll = 1

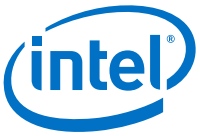
libmfxhw32.dll = 1
mfx_mft_h264vd_w7_32.dll = 1
mfx_mft_h264ve_w7_32.dll = 1
mfx_mft_h264ve_32.dll = 1
mfx_mft_mp2vd_w7_32.dll = 1
mfx_mft_mjpgvd_w7_32.dll = 1
mfx_mft_mjpgvd_32.dll = 1
mfx_mft_vc1vd_w7_32.dll = 1
mfx_mft_vpp_w7_32.dll = 1
mfx_mft_mjpgvd_32.dll = 1
m_w7_32.vp = 1
v1_w7_32.vp = 1
vp_w7_32.vp = 1
c_w7_32.cpa = 1
cpa_w7_32.vp = 1
dev_w7_32.vp = 1
h_w7_32.vp = 1
he_w7_32.vp = 1
mj_w7_32.vp = 1
c_32.cpa = 1
cpa_32.vp = 1
dev_32.vp = 1
he_32.vp = 1
mj_32.vp = 1

;
; Start CUI Registry Sections
;

[CUI.AddReg]
;Add INTEL/CUI keys
HKLM,"Software\INTEL"
HKLM,%DisplayKey%
HKLM,%CUIDeviceIndependentKey%

;HKLM,"%CUIDeviceIndependentKey%\igfxdev","MaxSuppXX",%REG_DWORD%,800
;HKLM,"%CUIDeviceIndependentKey%\igfxdev","MaxSuppYY",%REG_DWORD%,480

; Device Independent registry location
```



```
HKCR,"CLSID\{280A8F40-E382-11D2-B561-
00A0C92E6848}",,,%CUIDeviceIndependentKey%

; Add Diagnostic Pages with the rest of the pages
HKLM,"SOFTWARE\Microsoft\Windows\CurrentVersion\Controls
Folder\Display\shellex\PropertySheetHandlers\igfxcui",,,"{3AB1675A-CCFF-
11D2-8B20-00A0C93CB1F4}"
HKCR,"CLSID\{280A8F40-E382-11D2-B561-
00A0C92E6848}\shellex\PropertyPageHandlers\igfxcfg\diagHandler",,,"{3AB16
7A5-CCFF-11D2-8B20-00A0C93CB1F4}"

; Hide Graphics Property String for SG
;HKLM,"%CUIDeviceIndependentKey%\igfxpph\resources","3060",%REG_SZ%,""

;Enable STE value by default
HKLM,"%CUIDeviceIndependentKey%\Media","EnableSTE",%REG_DWORD%,0x1

;Enable ACE value by default
HKLM,"%CUIDeviceIndependentKey%\Media","EnableACE",%REG_DWORD%,0x1

;Intel Application Name
HKLM,"%CUIDeviceIndependentKey%\igfxcfg\resources","Application",%REG_SZ%
,"GfxUIEx.exe"

;Disable Custom Resolutions by default
HKLM,"%CUIDeviceIndependentKey%\CustomResolutions","ShowCustomResolutions
",%REG_DWORD%,0x0

; Add all Customization changes here- Start
;Removal of Image Stabilization feature in CUI
HKLM,"%CUIDeviceIndependentKey%\igfxcfg\resources","MediaImageEnhIS",%REG
_SZ%,""
; Add all Customization changes here- END

; Store resource information under %CUIDeviceIndependentKey%
; These all will come under device independent keys
; Control panel resource
HKLM,"%CUIDeviceIndependentKey%\igfxcpl\resources","468",,"""%11%"\igfxcf
g.exe"""
; static pages resource
HKLM,"%CUIDeviceIndependentKey%\igfxpph\resources","468",,"""%11%"\igfxcf
g.exe"""
; Diagnostics resource
HKLM,"%CUIDeviceIndependentKey%\igfxcfg\resources","2945",,"""%11%"\igfxd
iag.exe"""
; cfg resource
HKLM,"%CUIDeviceIndependentKey%\igfxcfg\resources","468",,"""%11%"\igfxcf
g.exe"""
HKLM,"%CUIDeviceIndependentKey%\igfxcfg\resources","829",,""
; service resource
HKLM,"%CUIDeviceIndependentKey%\igfxsrvc\resources","468",,"""%11%"\igfxc
fg.exe"""
HKLM,"%CUIDeviceIndependentKey%\igfxtray\TrayIcon","ShowTrayIcon",%REG_DW
ORD%,1
; tray resource
HKLM,"%CUIDeviceIndependentKey%\igfxtray","ShowOptimalBalloon",%REG_DWORD
%,1
```

```
HKLM,"%CUIDeviceIndependentKey%\igfxtray\resources","468",,"""%11%"\igfxc
fg.exe"""
HKLM,"%CUIDeviceIndependentKey%\igfxtray\resources","467",,"""%11%"\igfxt
ray.exe"""
; hotkey resource
HKLM,"%CUIDeviceIndependentKey%\hkcmd\resources","468",,"""%11%"\igfxcfg.
exe"""
; Virtual Keyboard
HKLM,"%CUIDeviceIndependentKey%\virtualKeyboard","ShowVirtualKeyBoard",%R
EG_DWORD%,0
;CUI Aspect Scaling hotkey expansion RCR 942979
HKLM,"%CUIDeviceIndependentKey%\hkcmd","ExpansionAllDisplay",%REG_DWORD%,
0x1
;static pages resource
HKLM,"%CUIDeviceIndependentKey%\igfxpph\resources","467",,"""%11%"\igfxtr
ay.exe"""
;This flag is used to enable WA for setting LFP as Primary in DDC
HKR,,   Display1_EnableLFPPrimaryInDDC,    %REG_DWORD%,    0x00
;CUI AC/DC Rotation uncomment the below line to enable this feature
;HKLM,"%CUIDeviceIndependentKey%\igfxcfg","DCRotationCaps",%REG_DWORD%,0x
1
;CUI default mode selection policy
HKLM,"%CUIDeviceIndependentKey%\igfxsrvc","ModeSelectionPolicy",%REG_DWOR
D%,0x01
;preset profiles
HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Default
Profile","ProcAmpHue",%REG_SZ%,0.00
HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Default
Profile","ProcAmpSaturation",%REG_SZ%,1.00
HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Default
Profile","ProcAmpBrightness",%REG_SZ%,0.00
HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Default
Profile","ProcAmpContrast",%REG_SZ%,1.00

HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Darken
Movie","ProcAmpHue",%REG_SZ%,0.00
HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Darken
Movie","ProcAmpSaturation",%REG_SZ%,1.00
HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Darken
Movie","ProcAmpBrightness",%REG_SZ%,-30.00
HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Darken
Movie","ProcAmpContrast",%REG_SZ%,1.00

HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Brighten
Movie","ProcAmpHue",%REG_SZ%,0.00
HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Brighten
Movie","ProcAmpSaturation",%REG_SZ%,1.00
HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Brighten
Movie","ProcAmpBrightness",%REG_SZ%,30.00
HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Brighten
Movie","ProcAmpContrast",%REG_SZ%,1.00

HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Vivid
Colors","ProcAmpHue",%REG_SZ%,0.00
HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Vivid
Colors","ProcAmpSaturation",%REG_SZ%,1.70
HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Vivid
Colors","ProcAmpBrightness",%REG_SZ%,0.00
```

```
HKLM,"%CUIDeviceIndependentKey%\profiles\Media\Vivid
Colors","ProcAmpContrast",%REG_SZ%,1.50
;=============================================================================
=====
HKLM,"SOFTWARE\Microsoft\Windows
NT\CurrentVersion\Winlogon\Notify\igfxcui"
HKLM,"SOFTWARE\Microsoft\Windows
NT\CurrentVersion\Winlogon\Notify\igfxcui","DLLName",%REG_SZ%,"igfxdev.dl
l"
HKLM,"SOFTWARE\Microsoft\Windows
NT\CurrentVersion\Winlogon\Notify\igfxcui","Asynchronous",%REG_DWORD%,1
HKLM,"SOFTWARE\Microsoft\Windows
NT\CurrentVersion\Winlogon\Notify\igfxcui","Impersonate",%REG_DWORD%,1
HKLM,"SOFTWARE\Microsoft\Windows
NT\CurrentVersion\Winlogon\Notify\igfxcui","Unlock",%REG_SZ%,"WinlogonUnl
ockEvent"
;=============================================================================
=====

; Class ID of the CUIDriver component.
HKR,"DEFAULT","CUIDriver",,"{9CEE304E-DC6C-11D2-B561-00A0C92E6848}"

; Context menu handler entry.
HKCR,
"Directory\Background\shellex\ContextMenuHandlers\igfxcui",,,"{3AB1675A-
CCFF-11D2-8B20-00A0C93CB1F4}"
;
; Registration of CUI dll's:            These will not self-register
through the have-disk install.
;                                       Does not register TypeLibs or
Interfaces.
;
; igfxcfg.exe self registration entries
;
HKCR,"AppID\{3D62E9A1-D243-11D2-B561-00A0C92E6848}",,,"igfxcfg"
HKCR,"AppID\igfxcfg.EXE","AppID",,"{3D62E9A1-D243-11D2-B561-
00A0C92E6848}"
HKCR,"CLSID\{A354BD60-4C0A-11d3-B561-00A0C92E6848}",,,"DataObject Class"
HKCR,"CLSID\{A354BD60-4C0A-11d3-B561-00A0C92E6848}","AppID",,"{3D62E9A1-
D243-11D2-B561-00A0C92E6848}"
HKCR,"CLSID\{A354BD60-4C0A-11d3-B561-
00A0C92E6848}\ProgID",,,"igfxcfg.DataObject.1"
HKCR,"CLSID\{A354BD60-4C0A-11d3-B561-
00A0C92E6848}\VersionIndependentProgID",,,"igfxcfg.DataObject"
HKCR,"CLSID\{A354BD60-4C0A-11d3-B561-
00A0C92E6848}\LocalServer32",,,"""%11%"\igfxcfg.exe"""
HKCR,"CLSID\{EE2D6561-D63C-11D2-B561-00A0C92E6848}",,,"ShellExt Class"
HKCR,"CLSID\{EE2D6561-D63C-11D2-B561-00A0C92E6848}","AppID",,"{3D62E9A1-
D243-11D2-B561-00A0C92E6848}"
HKCR,"CLSID\{EE2D6561-D63C-11D2-B561-
00A0C92E6848}\ProgID",,,"igfxcfg.ShellExt.1"
HKCR,"CLSID\{EE2D6561-D63C-11D2-B561-
00A0C92E6848}\VersionIndependentProgID",,,"igfxcfg.ShellExt"
HKCR,"CLSID\{EE2D6561-D63C-11D2-B561-00A0C92E6848}\Programmable",,,
HKCR,"CLSID\{EE2D6561-D63C-11D2-B561-
00A0C92E6848}\LocalServer32",,,"""%11%"\igfxcfg.exe"""
HKCR,"igfxcfg.DataObject.1",,,"DataObject Class"
HKCR,"igfxcfg.DataObject.1\CLSID",,,"{A354BD60-4C0A-11d3-B561-
00A0C92E6848}"
```

```
HKCR,"igfxcfg.DataObject",,,"DataObject Class"
HKCR,"igfxcfg.DataObject\CurVer",,,"igfxcfg.DataObject.1"
HKCR,"igfxcfg.DataObject\CLSID",,,"{A354BD60-4C0A-11d3-B561-
00A0C92E6848}"
HKCR,"igfxcfg.ShellExt.1",,,"ShellExt Class"
HKCR,"igfxcfg.ShellExt.1\CLSID",,,"{EE2D6561-D63C-11D2-B561-
00A0C92E6848}"
HKCR,"igfxcfg.ShellExt",,,"ShellExt Class"
HKCR,"igfxcfg.ShellExt\CurVer",,,"igfxcfg.ShellExt.1"
HKCR,"igfxcfg.ShellExt\CLSID",,,"{EE2D6561-D63C-11D2-B561-00A0C92E6848}"
;
; igfxdev.dll self registration entries
;
HKCR,"igfxdev.CUIDriver",,,"CUIDriver Class"
HKCR,"igfxdev.CUIDriver\CLSID",,,"{9CEE304E-DC6C-11D2-B561-00A0C92E6848}"
HKCR,"igfxdev.CUIDriver\CurVer",,,"igfxdev.CUIDriver.1"
HKCR,"igfxdev.CUIDriver.1",,,"CUIDriver Class"
HKCR,"igfxdev.CUIDriver.1\CLSID",,,"{9CEE304E-DC6C-11D2-B561-
00A0C92E6848}"
HKCR,"CLSID\{9CEE304E-DC6C-11D2-B561-00A0C92E6848}",,,"CUIDriver Class"
HKCR,"CLSID\{9CEE304E-DC6C-11D2-B561-
00A0C92E6848}\InProcServer32",,,%11%"\igfxdev.dll"
HKCR,"CLSID\{9CEE304E-DC6C-11D2-B561-
00A0C92E6848}\InProcServer32","ThreadingModel",,"Apartment"
HKCR,"CLSID\{9CEE304E-DC6C-11D2-B561-
00A0C92E6848}\ProgID",,,"igfxdev.CUIDriver.1"
HKCR,"CLSID\{9CEE304E-DC6C-11D2-B561-
00A0C92E6848}\VersionIndependentProgID",,,"igfxdev.CUIDriver"
;
;igfxTMM.dll self registration entries
;
HKCR,"igfxTMM.CloneViewHelper",,,"CloneViewHelper Class"
HKCR,"igfxTMM.CloneViewHelper\CLSID",,,"{6C4BE3D5-831A-42ED-AA62-
2AEB34C8CBA4}"
HKCR,"igfxTMM.CloneViewHelper\CurVer",,,"igfxTMM.CloneViewHelper.1"
HKCR,"igfxTMM.CloneViewHelper.1",,,"CloneViewHelper Class"
HKCR,"igfxTMM.CloneViewHelper.1\CLSID",,,"{6C4BE3D5-831A-42ED-AA62-
2AEB34C8CBA4}"
HKCR,"CLSID\{6C4BE3D5-831A-42ED-AA62-2AEB34C8CBA4}",,,"CloneViewHelper
Class"
HKCR,"CLSID\{6C4BE3D5-831A-42ED-AA62-
2AEB34C8CBA4}\InProcServer32",,,%11%"\igfxTMM.dll"
HKCR,"CLSID\{6C4BE3D5-831A-42ED-AA62-
2AEB34C8CBA4}\InProcServer32","ThreadingModel",,"Both"
HKCR,"CLSID\{6C4BE3D5-831A-42ED-AA62-
2AEB34C8CBA4}\ProgID",,,"igfxTMM.CloneViewHelper.1"
HKCR,"CLSID\{6C4BE3D5-831A-42ED-AA62-2AEB34C8CBA4}\TypeLib",,,"{9F7668BC-
E163-414C-92C6-01228863FF5A}"
HKCR,"CLSID\{6C4BE3D5-831A-42ED-AA62-
2AEB34C8CBA4}\VersionIndependentProgID",,,"igfxTMM.CloneViewHelper"

;igfxTMM entry for enabling ViewHelper Interface
HKLM,"Software\Microsoft\TMM","UseIViewHelper",%REG_DWORD%,1

;
; igfxsrvc.exe self registration entries
;
```

```
HKCR,"igfxsrvc.Settings\CLSID",,,"{078AEF33-C48A-49F7-AFF3-A0EE810BFE7C}"
HKCR,"igfxsrvc.Settings\CurVer",,,"igfxsrvc.Settings.1"
HKCR,"igfxsrvc.Settings.1\CLSID",,,"{078AEF33-C48A-49F7-AFF3-
A0EE810BFE7C}"
HKCR,"CLSID\{078AEF33-C48A-49F7-AFF3-A0EE810BFE7C}",,,"Settings Class"
HKCR,"CLSID\{078AEF33-C48A-49F7-AFF3-
A0EE810BFE7C}\LocalServer32",,,"""%11%"\igfxsrvc.exe"""
HKCR,"CLSID\{078AEF33-C48A-49F7-AFF3-
A0EE810BFE7C}\ProgID",,,"igfxsrvc.Settings.1"
HKCR,"CLSID\{078AEF33-C48A-49F7-AFF3-
A0EE810BFE7C}\VersionIndependentProgID",,,"igfxsrvc.Settings"
HKCR,"Interface\{916FEC45-8FAB-460F-9BD1-325055E3DEC9}",,,"ISettings"

HKCR,"igfxsrvc.DisplayConfig\CLSID",,,"{C2BFE331-6739-4270-86C9-
493D9A04CD38}"
HKCR,"igfxsrvc.DisplayConfig\CurVer",,,"igfxsrvc.DisplayConfig.1"
HKCR,"igfxsrvc.DispayConfig.1\CLSID",,,"{C2BFE331-6739-4270-86C9-
493D9A04CD38}"
HKCR,"CLSID\{C2BFE331-6739-4270-86C9-493D9A04CD38}",,,"DisplayConfig
Class"
HKCR,"CLSID\{C2BFE331-6739-4270-86C9-
493D9A04CD38}\LocalServer32",,,"""%11%"\igfxsrvc.exe"""
HKCR,"CLSID\{C2BFE331-6739-4270-86C9-
493D9A04CD38}\ProgID",,,"igfxsrvc.DisplayConfig.1"
HKCR,"CLSID\{C2BFE331-6739-4270-86C9-
493D9A04CD38}\VersionIndependentProgID",,,"igfxsrvc.DisplayConfig"
HKCR,"Interface\{DC61FD6D-FB60-4ABC-BF2E-
4DF75C90C601}",,,"IDisplayConfig"

HKCR,"igfxsrvc.EDID\CLSID",,,"{40CB6EA0-AB2A-45F8-BA45-2DC7756A7B49}"
HKCR,"igfxsrvc.EDID\CurVer",,,"igfxsrvc.EDID.1"
HKCR,"igfx.EDID.1\CLSID",,,"{40CB6EA0-AB2A-45F8-BA45-2DC7756A7B49}"
HKCR,"CLSID\{40CB6EA0-AB2A-45F8-BA45-2DC7756A7B49}",,,"EDID Class"
HKCR,"CLSID\{40CB6EA0-AB2A-45F8-BA45-
2DC7756A7B49}\LocalServer32",,,"""%11%"\igfxsrvc.exe"""
HKCR,"CLSID\{40CB6EA0-AB2A-45F8-BA45-
2DC7756A7B49}\ProgID",,,"igfxsrvc.EDID.1"
HKCR,"CLSID\{40CB6EA0-AB2A-45F8-BA45-
2DC7756A7B49}\VersionIndependentProgID",,,"igfxsrvc.EDID"
HKCR,"Interface\{B7C4F4C9-EE21-4042-9C11-BEA5E039B1F9}",,,"IEDID"

HKCR,"igfxsrvc.Color\CLSID",,,"{FE9617F6-E606-42AA-BECC-0E9CDA246D63}"
HKCR,"igfxsrvc.Color\CurVer",,,"igfxsrvc.Color.1"
HKCR,"igfx.Color.1\CLSID",,,"{FE9617F6-E606-42AA-BECC-0E9CDA246D63}"
HKCR,"CLSID\{FE9617F6-E606-42AA-BECC-0E9CDA246D63}",,,"Color Class"
HKCR,"CLSID\{FE9617F6-E606-42AA-BECC-
0E9CDA246D63}\LocalServer32",,,"""%11%"\igfxsrvc.exe"""
HKCR,"CLSID\{FE9617F6-E606-42AA-BECC-
0E9CDA246D63}\ProgID",,,"igfxsrvc.Color.1"
HKCR,"CLSID\{FE9617F6-E606-42AA-BECC-
0E9CDA246D63}\VersionIndependentProgID",,,"igfxsrvc.Color"
HKCR,"Interface\{63CDDDB9-A85B-411E-AA78-101B3BC17261}",,,"IColor"

HKCR,"igfxsrvc.CUIService",,,"CUIService Class"
HKCR,"igfxsrvc.CUIService\CLSID",,,"{0F195FA1-CCF0-11D2-8B20-
00A0C93CB1F4}"
HKCR,"igfxsrvc.CUIService\CurVer",,,"igfxsrvc.CUIService.1"
HKCR,"igfxsrvc.CUIService.1",,,"CUIService Class"
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HKCR,"igfx.CUIService.1\CLSID",,,"{0F195FA1-CCF0-11D2-8B20-00A0C93CB1F4}"
HKCR,"CLSID\{0F195FA1-CCF0-11D2-8B20-00A0C93CB1F4}",,,"CUIService Class"
HKCR,"CLSID\{0F195FA1-CCF0-11D2-8B20-
00A0C93CB1F4}\InProcServer32",,,"""%11%"\igfxsrvc.exe"""
HKCR,"CLSID\{0F195FA1-CCF0-11D2-8B20-
00A0C93CB1F4}\InProcServer32","ThreadingModel",,"Apartment"
HKCR,"CLSID\{0F195FA1-CCF0-11D2-8B20-
00A0C93CB1F4}\ProgID",,,"igfxsrvc.CUIService.1"
HKCR,"CLSID\{0F195FA1-CCF0-11D2-8B20-
00A0C93CB1F4}\VersionIndependentProgID",,,"igfxsrvc.CUIService"

HKCR,"igfxsrvc.CUIPower\CLSID",,,"{C332C124-340D-4430-AA0D-C75602876FCC}"
HKCR,"igfxsrvc.CUIPower\CurVer",,,"igfxsrvc.CUIPower.1"
HKCR,"igfx.CUIPower.1\CLSID",,,"{C332C124-340D-4430-AA0D-C75602876FCC}"
HKCR,"CLSID\{C332C124-340D-4430-AA0D-C75602876FCC}",,,"CUIPower Class"
HKCR,"CLSID\{C332C124-340D-4430-AA0D-
C75602876FCC}\LocalServer32",,,"""%11%"\igfxsrvc.exe"""
HKCR,"CLSID\{C332C124-340D-4430-AA0D-
C75602876FCC}\ProgID",,,"igfxsrvc.CUIPower.1"
HKCR,"CLSID\{C332C124-340D-4430-AA0D-
C75602876FCC}\VersionIndependentProgID",,,"igfxsrvc.CUIPower"
HKCR,"Interface\{299D88F9-2CBD-4225-BF19-FCD164C54C3F}",,,"ICUIPower"

HKCR,"igfxsrvc.MCCS\CLSID",,,"{999276E0-DA71-4743-8F02-0AB0A2D65558}"
HKCR,"igfxsrvc.MCCS\CurVer",,,"igfxsrvc.MCCS.1"
HKCR,"igfx.MCCS.1\CLSID",,,"{999276E0-DA71-4743-8F02-0AB0A2D65558}"
HKCR,"CLSID\{999276E0-DA71-4743-8F02-0AB0A2D65558}",,,"MCCS Class"
HKCR,"CLSID\{999276E0-DA71-4743-8F02-
0AB0A2D65558}\LocalServer32",,,"""%11%"\igfxsrvc.exe"""
HKCR,"CLSID\{999276E0-DA71-4743-8F02-
0AB0A2D65558}\ProgID",,,"igfxsrvc.MCCS.1"
HKCR,"CLSID\{999276E0-DA71-4743-8F02-
0AB0A2D65558}\VersionIndependentProgID",,,"igfxsrvc.MCCS"
HKCR,"Interface\{D80D344A-0CCD-4B2F-B379-56DE3EC2C4D1}",,,"IMCCS"

HKCR,"igfxsrvc.OpenGL\CLSID",,,"{DCB2D492-5F4F-4378-8FF4-DA87062D42E3}"
HKCR,"igfxsrvc.OpenGL\CurVer",,,"igfxsrvc.OpenGL.1"
HKCR,"igfx.OpenGL.1\CLSID",,,"{DCB2D492-5F4F-4378-8FF4-DA87062D42E3}"
HKCR,"CLSID\{DCB2D492-5F4F-4378-8FF4-DA87062D42E3}",,,"OpenGL Class"
HKCR,"CLSID\{DCB2D492-5F4F-4378-8FF4-
DA87062D42E3}\LocalServer32",,,"""%11%"\igfxsrvc.exe"""
HKCR,"CLSID\{DCB2D492-5F4F-4378-8FF4-
DA87062D42E3}\ProgID",,,"igfxsrvc.OpenGL.1"
HKCR,"CLSID\{DCB2D492-5F4F-4378-8FF4-
DA87062D42E3}\VersionIndependentProgID",,,"igfxsrvc.OpenGL"
HKCR,"Interface\{965FD393-C149-45F1-863C-402C4E2E38C5}",,,"IOpenGL"

HKCR,"igfxsrvc.Overlay\CLSID",,,"{016B931D-8430-4988-8510-C69C214CFF32}"
HKCR,"igfxsrvc.Overlay\CurVer",,,"igfxsrvc.Overlay.1"
HKCR,"igfx.Overlay.1\CLSID",,,"{016B931D-8430-4988-8510-C69C214CFF32}"
HKCR,"CLSID\{016B931D-8430-4988-8510-C69C214CFF32}",,,"Overlay Class"
HKCR,"CLSID\{016B931D-8430-4988-8510-
C69C214CFF32}\LocalServer32",,,"""%11%"\igfxsrvc.exe"""
HKCR,"CLSID\{016B931D-8430-4988-8510-
C69C214CFF32}\ProgID",,,"igfxsrvc.Overlay.1"
HKCR,"CLSID\{016B931D-8430-4988-8510-
C69C214CFF32}\VersionIndependentProgID",,,"igfxsrvc.Overlay"
HKCR,"Interface\{25824158-68E7-4A6F-A2FD-F6AD1D6845D4}",,,"IOverlay"
```

```
HKCR,"igfxsrvc.Rotation\CLSID",,,"{9B908879-E03F-4D0C-ACB3-9065B1155460}"
HKCR,"igfxsrvc.Rotation\CurVer",,,"igfxsrvc.Rotation.1"
HKCR,"igfx.Rotation.1\CLSID",,,"{9B908879-E03F-4D0C-ACB3-9065B1155460}"
HKCR,"CLSID\{9B908879-E03F-4D0C-ACB3-9065B1155460}",,,"Rotation Class"
HKCR,"CLSID\{9B908879-E03F-4D0C-ACB3-
9065B1155460}\LocalServer32",,,"""%11%"\igfxsrvc.exe""""
HKCR,"CLSID\{9B908879-E03F-4D0C-ACB3-
9065B1155460}\ProgID",,,"igfxsrvc.Rotation.1"
HKCR,"CLSID\{9B908879-E03F-4D0C-ACB3-
9065B1155460}\VersionIndependentProgID",,,"igfxsrvc.Rotation"
HKCR,"Interface\{72DC5954-069D-43C4-9B8B-19B59269DC74}",,,"IRotation"

HKCR,"igfxsrvc.Scheme\CLSID",,,"{C071C982-2EB2-4D3A-9821-E4B31B0142C8}"
HKCR,"igfxsrvc.Scheme\CurVer",,,"igfxsrvc.Scheme.1"
HKCR,"igfx.Scheme.1\CLSID",,,"{C071C982-2EB2-4D3A-9821-E4B31B0142C8}"
HKCR,"CLSID\{C071C982-2EB2-4D3A-9821-E4B31B0142C8}",,,"Scheme Class"
HKCR,"CLSID\{C071C982-2EB2-4D3A-9821-
E4B31B0142C8}\LocalServer32",,,"""%11%"\igfxsrvc.exe""""
HKCR,"CLSID\{C071C982-2EB2-4D3A-9821-
E4B31B0142C8}\ProgID",,,"igfxsrvc.Scheme.1"
HKCR,"CLSID\{C071C982-2EB2-4D3A-9821-
E4B31B0142C8}\VersionIndependentProgID",,,"igfxsrvc.Scheme"
HKCR,"Interface\{D5393CA5-EF8F-49E0-B180-212C903C652C}",,,"IScheme"

HKCR,"igfxsrvc.TVParam\CLSID",,,"{12E3793C-7C3C-4C00-BC4E-C79849B3F430}"
HKCR,"igfxsrvc.TVParam\CurVer",,,"igfxsrvc.TVParam.1"
HKCR,"igfx.TVParam.1\CLSID",,,"{12E3793C-7C3C-4C00-BC4E-C79849B3F430}"
HKCR,"CLSID\{12E3793C-7C3C-4C00-BC4E-C79849B3F430}",,,"TVParam Class"
HKCR,"CLSID\{12E3793C-7C3C-4C00-BC4E-
C79849B3F430}\LocalServer32",,,"""%11%"\igfxsrvc.exe""""
HKCR,"CLSID\{12E3793C-7C3C-4C00-BC4E-
C79849B3F430}\ProgID",,,"igfxsrvc.TVParam.1"
HKCR,"CLSID\{12E3793C-7C3C-4C00-BC4E-
C79849B3F430}\VersionIndependentProgID",,,"igfxsrvc.TVParam"
HKCR,"Interface\{DDA11344-AB20-4AEC-94C4-6AA091574CD0}",,,"ITVParam"
;
;proxy stub for igfxsrvc.exe
;
HKCR,"CLSID\{DDA11344-AB20-4AEC-94C4-6AA091574CD0}",,,"PSFactoryBuffer"
HKCR,"CLSID\{DDA11344-AB20-4AEC-94C4-
6AA091574CD0}\InProcServer32",,,%11%"\igfxsrvc.dll"
HKCR,"CLSID\{DDA11344-AB20-4AEC-94C4-
6AA091574CD0}\InProcServer32","ThreadingModel",,"Both"

HKCR,"Interface\{DDA11344-AB20-4AEC-94C4-6AA091574CD0}",,,"ITVParam"
HKCR,"Interface\{DDA11344-AB20-4AEC-94C4-
6AA091574CD0}\ProxyStubClsid32",,,"{DDA11344-AB20-4AEC-94C4-
6AA091574CD0}"
HKCR,"Interface\{DDA11344-AB20-4AEC-94C4-6AA091574CD0}\NumMethods",,,"9"

HKCR,"Interface\{916FEC45-8FAB-460F-9BD1-325055E3DEC9}",,,"ISettings"
HKCR,"Interface\{916FEC45-8FAB-460F-9BD1-
325055E3DEC9}\ProxyStubClsid32",,,"{DDA11344-AB20-4AEC-94C4-
6AA091574CD0}"
HKCR,"Interface\{916FEC45-8FAB-460F-9BD1-325055E3DEC9}\NumMethods",,,"13"
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HKCR,"Interface\{D5393CA5-EF8F-49E0-B180-212C903C652C}",,,"IScheme"
HKCR,"Interface\{D5393CA5-EF8F-49E0-B180-
212C903C652C}\ProxyStubClsid32",,,"{DDA11344-AB20-4AEC-94C4-
6AA091574CD0}"
HKCR,"Interface\{D5393CA5-EF8F-49E0-B180-212C903C652C}\NumMethods",,,"7"

HKCR,"Interface\{72DC5954-069D-43C4-9B8B-19B59269DC74}",,,"IRotation"
HKCR,"Interface\{72DC5954-069D-43C4-9B8B-
19B59269DC74}\ProxyStubClsid32",,,"{DDA11344-AB20-4AEC-94C4-
6AA091574CD0}"
HKCR,"Interface\{72DC5954-069D-43C4-9B8B-19B59269DC74}\NumMethods",,,"9"

HKCR,"Interface\{25824158-68E7-4A6F-A2FD-F6AD1D6845D4}",,,"IOverlay"
HKCR,"Interface\{25824158-68E7-4A6F-A2FD-
F6AD1D6845D4}\ProxyStubClsid32",,,"{DDA11344-AB20-4AEC-94C4-
6AA091574CD0}"
HKCR,"Interface\{25824158-68E7-4A6F-A2FD-F6AD1D6845D4}\NumMethods",,,"13"

HKCR,"Interface\{965FD393-C149-45F1-863C-402C4E2E38C5}",,,"IOpenGL"
HKCR,"Interface\{965FD393-C149-45F1-863C-
402C4E2E38C5}\ProxyStubClsid32",,,"{DDA11344-AB20-4AEC-94C4-
6AA091574CD0}"
HKCR,"Interface\{965FD393-C149-45F1-863C-402C4E2E38C5}\NumMethods",,,"7"

HKCR,"Interface\{D80D344A-0CCD-4B2F-B379-56DE3EC2C4D1}",,,"IMCCS"
HKCR,"Interface\{D80D344A-0CCD-4B2F-B379-
56DE3EC2C4D1}\ProxyStubClsid32",,,"{DDA11344-AB20-4AEC-94C4-
6AA091574CD0}"
HKCR,"Interface\{D80D344A-0CCD-4B2F-B379-56DE3EC2C4D1}\NumMethods",,,"9"

HKCR,"Interface\{B7C4F4C9-EE21-4042-9C11-BEA5E039B1F9}",,,"IEDID"
HKCR,"Interface\{B7C4F4C9-EE21-4042-9C11-
BEA5E039B1F9}\ProxyStubClsid32",,,"{DDA11344-AB20-4AEC-94C4-
6AA091574CD0}"
HKCR,"Interface\{B7C4F4C9-EE21-4042-9C11-BEA5E039B1F9}\NumMethods",,,"12"

HKCR,"Interface\{DC61FD6D-FB60-4ABC-BF2E-
4DF75C90C601}",,,"IDisplayConfig"
HKCR,"Interface\{DC61FD6D-FB60-4ABC-BF2E-
4DF75C90C601}\ProxyStubClsid32",,,"{DDA11344-AB20-4AEC-94C4-
6AA091574CD0}"
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HKCR,"Interface\{299D88F9-2CBD-4225-BF19-FCD164C54C3F}",,,"ICUIPower"
HKCR,"Interface\{299D88F9-2CBD-4225-BF19-
FCD164C54C3F}\ProxyStubClsid32",,,"{DDA11344-AB20-4AEC-94C4-
6AA091574CD0}"
HKCR,"Interface\{299D88F9-2CBD-4225-BF19-FCD164C54C3F}\NumMethods",,,"7"

HKCR,"Interface\{63CDDDB9-A85B-411E-AA78-101B3BC17261}",,,"IColor"
HKCR,"Interface\{63CDDDB9-A85B-411E-AA78-
101B3BC17261}\ProxyStubClsid32",,,"{DDA11344-AB20-4AEC-94C4-
6AA091574CD0}"
HKCR,"Interface\{63CDDDB9-A85B-411E-AA78-101B3BC17261}\NumMethods",,,"14"
;
; igfxpph.dll self registration entries
;
HKCR,"igfxpph.GraphicsShellExt",,,"GraphicsShellExt Class"
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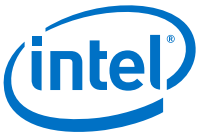

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HKCR,"igfxpph.GraphicsShellExt\CLSID",,,"{3AB1675A-CCFF-11D2-8B20-
00A0C93CB1F4}"
HKCR,"igfxpph.GraphicsShellExt\CurVer",,,"igfxpph.GraphicsShellExt.1"
HKCR,"igfxpph.GraphicsShellExt.1",,,"GraphicsShellExt Class"
HKCR,"igfxpph.GraphicsShellExt.1\CLSID",,,"{3AB1675A-CCFF-11D2-8B20-
00A0C93CB1F4}"
HKCR,"CLSID\{3AB1675A-CCFF-11D2-8B20-00A0C93CB1F4}",,,"GraphicsShellExt
Class"
HKCR,"CLSID\{3AB1675A-CCFF-11D2-8B20-
00A0C93CB1F4}\InProcServer32",,,%11%"\igfxpph.dll"
HKCR,"CLSID\{3AB1675A-CCFF-11D2-8B20-
00A0C93CB1F4}\InProcServer32","ThreadingModel",,"Apartment"
HKCR,"CLSID\{3AB1675A-CCFF-11D2-8B20-
00A0C93CB1F4}\ProgID",,,"igfxpph.GraphicsShellExt.1"
HKCR,"CLSID\{3AB1675A-CCFF-11D2-8B20-
00A0C93CB1F4}\VersionIndependentProgID",,,"igfxpph.GraphicsShellExt"
HKCR,"CLSID\{3AB1675A-CCFF-11D2-8B20-00A0C93CB1F4}\Programmable",,,
;
; igfxeud.dll self registration entries
;
;HKCR,"igfxeud.EndUserShellExt",,,"EndUserShellExt Class"
;HKCR,"igfxeud.EndUserShellExt\CLSID",,,"{3AB167A5-CCFF-11D2-8B20-
00A0C93CB1F4}"
;HKCR,"igfxeud.EndUserShellExt\CurVer",,,"igfxeud.EndUserShellExt.1"
;HKCR,"igfxeud.EndUserShellExt.1",,,"EndUserShellExt Class"
;HKCR,"igfxeud.EndUserShellExt.1\CLSID",,,"{3AB167A5-CCFF-11D2-8B20-
00A0C93CB1F4}"
;HKCR,"CLSID\{3AB167A5-CCFF-11D2-8B20-00A0C93CB1F4}",,,"EndUserShellExt
Class"
;HKCR,"CLSID\{3AB167A5-CCFF-11D2-8B20-
00A0C93CB1F4}\InProcServer32",,,%11%"\igfxeud.dll"
;HKCR,"CLSID\{3AB167A5-CCFF-11D2-8B20-
00A0C93CB1F4}\InProcServer32","ThreadingModel",,"Apartment"
;HKCR,"CLSID\{3AB167A5-CCFF-11D2-8B20-
00A0C93CB1F4}\ProgID",,,"igfxeud.EndUserShellExt.1"
;HKCR,"CLSID\{3AB167A5-CCFF-11D2-8B20-
00A0C93CB1F4}\VersionIndependentProgID",,,"igfxeud.EndUserShellExt"
;HKCR,"CLSID\{3AB167A5-CCFF-11D2-8B20-00A0C93CB1F4}\Programmable",,,

; Igfxdo.dll self registration entries
;
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HKCR,"Igfxdo.DataObject\CLSID",,,"{D4FA3D4E-BE69-11D4-AA30-00902704C6BF}"
HKCR,"Igfxdo.DataObject\CurVer",,,"Igfxdo.DataObject.1"
HKCR,"Igfxdo.DataObject.1",,,"DataObject Class"
HKCR,"Igfxdo.DataObject.1\CLSID",,,"{D4FA3D4E-BE69-11D4-AA30-
00902704C6BF}"
HKCR,"CLSID\{D4FA3D4E-BE69-11D4-AA30-00902704C6BF}",,,"DataObject Class"
HKCR,"CLSID\{D4FA3D4E-BE69-11D4-AA30-
00902704C6BF}\InProcServer32",,,%11%"\igfxdo.dll"
HKCR,"CLSID\{D4FA3D4E-BE69-11D4-AA30-
00902704C6BF}\InProcServer32","ThreadingModel",,"Apartment"
HKCR,"CLSID\{D4FA3D4E-BE69-11D4-AA30-
00902704C6BF}\ProgID",,,"Igfxdo.DataObject.1"
HKCR,"CLSID\{D4FA3D4E-BE69-11D4-AA30-
00902704C6BF}\VersionIndependentProgID",,,"Igfxdo.DataObject"
HKCR,"CLSID\{D4FA3D4E-BE69-11D4-AA30-00902704C6BF}\Programmable",,,
```

```
HKCR,"Igfxdo.DataObjectInit",,,"DataObjectInit Class"
HKCR,"Igfxdo.DataObjectInit\CLSID",,,"{4501A903-BF07-11D4-AA30-
00902704C6BF}"
HKCR,"Igfxdo.DataObjectInit\CurVer",,,"Igfxdo.DataObjectInit.1"
HKCR,"Igfxdo.DataObjectInit.1",,,"DataObjectInit Class"
HKCR,"Igfxdo.DataObjectInit.1\CLSID",,,"{4501A903-BF07-11D4-AA30-
00902704C6BF}"
HKCR,"CLSID\{4501A903-BF07-11D4-AA30-00902704C6BF}",,,"DataObjectInit
Class"
HKCR,"CLSID\{4501A903-BF07-11D4-AA30-
00902704C6BF}\InProcServer32",,,%11%"\igfxdo.dll"
HKCR,"CLSID\{4501A903-BF07-11D4-AA30-
00902704C6BF}\InProcServer32","ThreadingModel",,"Apartment"
HKCR,"CLSID\{4501A903-BF07-11D4-AA30-
00902704C6BF}\ProgID",,,"Igfxdo.DataObjectInit.1"
HKCR,"CLSID\{4501A903-BF07-11D4-AA30-
00902704C6BF}\VersionIndependentProgID",,,"Igfxdo.DataObjectInit"
HKCR,"CLSID\{4501A903-BF07-11D4-AA30-00902704C6BF}\Programmable",,,
;
; igfxtray.exe execution on startup
;
HKLM,Software\Microsoft\Windows\CurrentVersion\Run,IgfxTray,,"""%11%"\igf
xtray.exe"""
HKLM,Software\Microsoft\Windows\CurrentVersion\Run,HotKeysCmds,,"""%11%"\
hkcmd.exe"""
HKLM,Software\Microsoft\Windows\CurrentVersion\Run,Persistence,,"""%11%"\
igfxpers.exe"""
;
;
; Entries for receiving winlogon unlock event
;
HKLM,"SOFTWARE\Microsoft\Windows
NT\CurrentVersion\Winlogon\Notify\igfxcui","DLLName",%REG_SZ%,"igfxdev.dl
l"
HKLM,"SOFTWARE\Microsoft\Windows
NT\CurrentVersion\Winlogon\Notify\igfxcui","Asynchronous",%REG_DWORD%,1
HKLM,"SOFTWARE\Microsoft\Windows
NT\CurrentVersion\Winlogon\Notify\igfxcui","Impersonate",%REG_DWORD%,1
HKLM,"SOFTWARE\Microsoft\Windows
NT\CurrentVersion\Winlogon\Notify\igfxcui","Unlock",%REG_SZ%,"WinlogonUnl
ockEvent"

; Disable Hot Key action
;HKLM,"%CUIDeviceIndependentKey%\igfxsrvc\resources","2658",,"Disable"

;Hide Custom Mode Blade
;HKLM,"%CUIDeviceIndependentKey%\igfxcfg\resources","MainWindowDisplayCus
tomModes",,""

[CUISDK.AddReg]
;
; igfxext.exe self registration entries
;
HKCR,"IgfxExt.CUIExternal\CLSID",,,"{7160A13D-73DA-4CEA-95B9-
37356478588A}"
HKCR,"IgfxExt.CUIExternal\CurVer",,,"IgfxExt.CUIExternal.1"
HKCR,"IgfxExt.CUIExternal.1\CLSID",,,"{7160A13D-73DA-4CEA-95B9-
37356478588A}"
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HKCR,"CLSID\{7160A13D-73DA-4CEA-95B9-
37356478588A}\LocalServer32",,,"""%11%"\igfxext.exe"""
HKCR,"CLSID\{7160A13D-73DA-4CEA-95B9-
37356478588A}\ProgID",,,"IgfxExt.CUIExternal.1"
HKCR,"CLSID\{7160A13D-73DA-4CEA-95B9-
37356478588A}\VersionIndependentProgID",,,"IgfxExt.CUIExternal"
;

;
;proxy stub for igfxext.exe (igfxexps.dll)
;
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HKCR,"CLSID\{27E7234F-429F-4787-AC8F-
8AADDED01355}\InProcServer32",,,%11%"\IGFXEXPS.DLL"
HKCR,"CLSID\{27E7234F-429F-4787-AC8F-
8AADDED01355}\InProcServer32","ThreadingModel",,"Both"

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801E0CDB671E}\ProxyStubClsid32",,,"{27E7234F-429F-4787-AC8F-
8AADDED01355}"
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8AADDED01355}"
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HKCR,"Interface\{70F8C65F-06AA-443b-9E6B-
7C73808F07E5}\ProxyStubClsid32",,,"{27E7234F-429F-4787-AC8F-
8AADDED01355}"
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E5387C94D1B0}",,,"ICUIExternalDual"
HKCR,"Interface\{3473E05A-3317-4df5-9098-
E5387C94D1B0}\ProxyStubClsid32",,,"{27E7234F-429F-4787-AC8F-
8AADDED01355}"
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HKCR,"Interface\{5DC5B31E-0C28-4679-B8D8-
32CF2F9BACED}\ProxyStubClsid32",,,"{27E7234F-429F-4787-AC8F-
8AADDED01355}"
HKCR,"Interface\{5DC5B31E-0C28-4679-B8D8-32CF2F9BACED}\NumMethods",,,"7"

HKCR,"Interface\{A05C525D-B4CB-4108-BFF7-1ACF1A14F00A}",,,"ICUIExternal5"
HKCR,"Interface\{A05C525D-B4CB-4108-BFF7-
1ACF1A14F00A}\ProxyStubClsid32",,,"{27E7234F-429F-4787-AC8F-
8AADDED01355}"
HKCR,"Interface\{A05C525D-B4CB-4108-BFF7-1ACF1A14F00A}\NumMethods",,,"5"

HKCR,"Interface\{AFB6489F-4515-44AA-8DF7-ED28EA46283C}",,,"ICUIExternal6"
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```
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ED28EA46283C}\ProxyStubClsid32",,,"{27E7234F-429F-4787-AC8F-
8AADDED01355}"
HKCR,"Interface\{AFB6489F-4515-44AA-8DF7-ED28EA46283C}\NumMethods",,,"12"

HKCR,"Interface\{2CED2F89-627B-4E5D-840F-B126EE858CD8}",,,"ICUIExternal7"
HKCR,"Interface\{2CED2F89-627B-4E5D-840F-
B126EE858CD8}\ProxyStubClsid32",,,"{27E7234F-429F-4787-AC8F-
8AADDED01355}"
HKCR,"Interface\{2CED2F89-627B-4E5D-840F-B126EE858CD8}\NumMethods",,,"2"

HKCR,"Interface\{F932C038-6484-45ca-8FA1-7C8C279F7AEE}",,,"ICUIExternal8"
HKCR,"Interface\{F932C038-6484-45ca-8FA1-
7C8C279F7AEE}\ProxyStubClsid32",,,"{27E7234F-429F-4787-AC8F-
8AADDED01355}"
HKCR,"Interface\{F932C038-6484-45ca-8FA1-7C8C279F7AEE}\NumMethods",,,"2"

HKCR,"Interface\{86709F66-89C5-4b19-A83F-E4995E21599A}",,,"ICUIDownScale"
HKCR,"Interface\{86709F66-89C5-4b19-A83F-
E4995E21599A}\ProxyStubClsid32",,,"{27E7234F-429F-4787-AC8F-
8AADDED01355}"
HKCR,"Interface\{86709F66-89C5-4b19-A83F-E4995E21599A}\NumMethods",,,"4"

[CUISDK.DelReg]
HKR,Igfxext
;
; End CUI Registry Sections
;
[PowerPlanSettings]
;Intel Graphics Power Plan
Subgroup = {44F3BECA-A7C0-460e-9DF2-BB8B99E0CBA6}, "Intel(R) Graphics
Settings", "Configure Intel(R) Graphics Settings"
Setting = {3619C3F2-AFB2-4afc-B0E9-E7FEF372DE36},"Intel(R) Graphics Power
Plan", "Configure Intel(R) Graphics Power Plan"

Value = 0, "Maximum Battery Life", "Maximum Battery Life", %REG_DWORD%, 0
Value = 1, "Balanced", "Balanced", %REG_DWORD%, 1
Value = 2, "Maximum Performance", "Maximum Performance", %REG_DWORD%, 2

Default = %GUID_MAX_POWER_SAVINGS%, %AC%, 0
Default = %GUID_MAX_POWER_SAVINGS%, %DC%, 0
Default = %GUID_TYPICAL_POWER_SAVINGS%, %AC%, 1
Default = %GUID_TYPICAL_POWER_SAVINGS%, %DC%, 1
Default = %GUID_MIN_POWER_SAVINGS%, %AC%, 2
Default = %GUID_MIN_POWER_SAVINGS%, %DC%, 2

[Strings]
;DPPE
GUID_MAX_POWER_SAVINGS = "{a1841308-3541-4fab-bc81-f71556f20b4a}"
GUID_TYPICAL_POWER_SAVINGS = "{381b4222-f694-41f0-9685-ff5bb260df2e}"
GUID_MIN_POWER_SAVINGS = "{8c5e7fda-e8bf-4a96-9a85-a6e23a8c635c}"
AC = 0
DC = 1

;
; Customizable Strings
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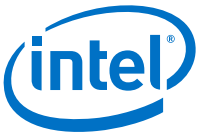

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;
CUIDeviceIndependentKey="Software\Intel\Display\igfxcui"
DisplayKey="Software\Intel\Display"
CUIDriverOldShareKey="Software\Intel\CUI"
;
; Non-Localizable Strings
;
REG_SZ         = 0x00000000
REG_MULTI_SZ   = 0x00010000
REG_DWORD      = 0x00010001
REG_BINARY     = 0x00000001
SERVICEROOT    = "System\CurrentControlSet\Services"
;
; Localizable Strings
;
DiskId       = "Intel(R) Embedded Media and Graphics Driver"
Intel         = "Intel Corporation"
iIVBGD0      = "Intel(R) HD Graphics 4000"
iIVBGM0      = "Intel(R) HD Graphics 4000"
iIVBGD0SRV   = "Intel(R) HD Graphics"
iIVBGD0GT1   = "Intel(R) HD Graphics"
iIVBGM0GT1   = "Intel(R) HD Graphics"
iIVBGD0SRVGT1 = "Intel(R) HD Graphics"
iVLVGMT0    = "Intel(R) Atom(TM) Processor E3800 Series/Intel(R)
Celeron(R) Processor N2920/J1900"
; HSW Classic
iHSWGT1D   = "Intel(R) HD Graphics"
iHSWGT1M    = "Intel(R) HD Graphics"
iHSWGT15D    = "Intel(R) HD Graphics 4400"
iHSWGT2D    = "Intel(R) HD Graphics 4600"
iHSWGT2M    = "Intel(R) HD Graphics 4600"
; HSW ULT
iHSWGT1UT   = "Intel(R) HD Graphics"
iHSWGT2UT   = "Intel(R) HD Graphics Family"
iHSWGT3UT   = "Intel(R) HD Graphics 5000"
iHSWGT3UT28W   = "Intel(R) Iris(TM) Graphics 5100"
iHSWGT2UX   = "Intel(R) HD Graphics Family"
iHSWGT1ULX= "Intel(R) HD Graphics"
; HSW CRW
iHSWGT3CW  = "Intel(R) Iris(TM) Pro Graphics 5200"
iHSWGT3CWDT  = "Intel(R) Iris(TM) Pro Graphics 5200"
; HSW SRVR
iHSWSVGT2  = "Intel(R) HD Graphics P4600/P4700"
iHSWSVGT1  = "Intel(R) HD Graphics"
;
; Do not modify or copy the following line
; set SIGNING_KEY_VERSION=2
;
```

§ §

Appendix B 2D/3D API Support

B.1 2D Support

Intel® EMGD provides 2D capabilities on Windows through DirectDraw*.

B.2 3D Support

Intel® EMGD provides 3D capabilities through several industry-standard APIs, such as OpenGL, OpenGL ES, and Direct3D. These APIs are described in the following sections.

B.2.1 OpenGL APIs

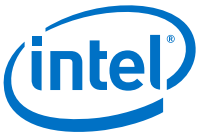
The following OpenGL versions OpenGL 1.1 through 4.0 are supported:

For general OpenGL information, visit http://www.opengl.org/about/overview/.

B.2.1.1 Supported Intel® OpenGL APIs for Windows

Table 6. Supported Intel® OpenGL APIs for Windows

WGL_ARB_buffer_region
WGL_ARB_multisample
WGL_ARB_extensions_string
WGL_ARB_pixel_format
WGL_ARB_make_current_read
WGL_ARB_pbuffer
WGL_ARB_pixel_format_float
WGL_ARB_framebuffer_sRGB
WGL_ARB_create_context
WGL_EXT_extensions_string
WGL_EXT_swap_control
WGL_EXT_pixel_format_packed_float



B.2.1.2 Supported Extensions (Not OS specific)

Table 7. Non-Supported Intel® OpenGL APIs (Not OS specific) (Sheet 1 of 4)

GL_ARB_multitexture
GL_ARB_transpose_matrix
GL_ARB_multisample
GL_ARB_multisample (MAX_SAMPLE=4)
GL_ARB_texture_env_add
GL_ARB_texture_cube_map
GL_ARB_texture_compression
GL_ARB_texture_border_clamp
GL_ARB_point_parameters
GL_ARB_texture_env_combine
GL_ARB_texture_env_crossbar
GL_ARB_texture_env_dot3
GL_ARB_texture_mirrored_repeat
GL_ARB_depth_texture
GL_ARB_shadow
GL_ARB_window_pos
GL_ARB_vertex_program
GL_ARB_fragment_program
GL_ARB_vertex_buffer_object
GL_ARB_occlusion_query
GL_ARB_shader_objects
GL_ARB_vertex_shader
GL_ARB_fragment_shader
GL_ARB_shading_language_100
GL_ARB_texture_non_power_of_two
GL_ARB_point_sprite
GL_ARB_fragment_program_shadow
GL_ARB_draw_buffers
GL_ARB_texture_rectangle
GL_ARB_color_buffer_float
GL_ARB_half_float_pixel
GL_ARB_texture_float
GL_ARB_pixel_buffer_object
GL_ARB_depth_buffer_float
GL_ARB_draw_instanced
GL_ARB_framebuffer_object
GL_ARB_framebuffer_sRGB
GL_ARB_geometry_shader4
GL_ARB_half_float_vertex
GL_ARB_instanced_arrays

Table 7. Non-Supported Intel® OpenGL APIs (Not OS specific) (Sheet 2 of 4)

GL_ARB_map_buffer_range
GL_ARB_texture_buffer_object
GL_ARB_texture_compression_rgtc
GL_ARB_texture_rg
GL_ARB_vertex_array_object
GL_ARB_uniform_buffer_object
GL_ARB_copy_buffer
GL_ARB_depth_clamp
GL_ARB_draw_elements_base_vertex
GL_ARB_fragment_coord_conventions
GL_ARB_provoking_vertex
GL_ARB_seamless_cube_map
GL_ARB_sync
GL_ARB_texture_multisample
GL_ARB_vertex_array_bgra
GL_ARB_draw_buffers_blend
GL_ARB_sample_shading
GL_ARB_texture_cube_map_array
GL_ARB_texture_gather
GL_ARB_texture_query_lod
GL_ARB_texture_query_lod
GL_ARB_texture_compression_bptc
GL_ARB_blend_func_extended
GL_ARB_explicit_attrib_location
GL_ARB_occlusion_query2
GL_ARB_sampler_objects
GL_ARB_shader_bit_encoding
GL_ARB_texture_rgb10_a2ui
GL_ARB_timer_query
GL_ARB_vertex_type_2_10_10_10_rev
GL_ARB_draw_indirect
GL_ARB_gpu_shader5
GL_ARB_gpu_shader_fp64
GL_ARB_shader_subroutine
GL_ARB_tessellation_shader
GL_ARB_texture_buffer_object_rgb32
GL_ARB_transform_feedback2
GL_ARB_transform_feedback3
GL_ARB_get_program_binary
GL_ARB_viewport_array
GL_ARB_map_buffer_alignment
GL_EXT_abgr

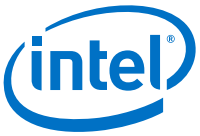


Table 7. Non-Supported Intel® OpenGL APIs (Not OS specific) (Sheet 3 of 4)

GL_EXT_blend_color
GL_EXT_polygon_offset
GL_EXT_texture
GL_EXT_texture3D
GL_EXT_subtexture
GL_EXT_copy_texture
GL_EXT_texture_object
GL_EXT_packed_pixels
GL_SGIS_texture_lod
GL_EXT_rescale_normal
GL_EXT_vertex_array
GL_SGIS_generate_mipmap
GL_SGIS_texture_edge_clamp
GL_EXT_blend_minmax
GL_EXT_blend_subtract
GL_EXT_blend_logic_op
GL_EXT_point_parameters
GL_EXT_clip_volume_hint
GL_EXT_compiled_vertex_array
GL_EXT_draw_range_elements
GL_EXT_bgra
GL_EXT_separate_specular_color
GL_EXT_secondary_color
GL_EXT_multi_draw_arrays GL_SUN_multi_draw_arrays
GL_EXT_fog_coord
GL_EXT_texture_env_combine
GL_EXT_blend_func_separate
GL_EXT_stencil_wrap
GL_NV_texgen_reflection
GL_EXT_texture_env_add
GL_EXT_texture_lod_bias
GL_EXT_texture_filter_anisotropic
GL_NV_blend_square
GL_EXT_texture_compression_s3tc
GL_3DFX_texture_compression_FXT1
GL_EXT_texture_env_dot3
GL_IBM_texture_mirrored_repeat
GL_NV_texture_rectangle
GL_EXT_shadow_funcs
GL_EXT_stencil_two_side
GL_S3_s3tc

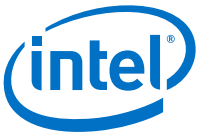
Table 7. Non-Supported Intel® OpenGL APIs (Not OS specific) (Sheet 4 of 4)

GL_NV_primitive_restart
GL_ATI_separate_stencil
GL_EXT_blend_equation_separate
GL_EXT_framebuffer_object
GL_EXT_packed_depth_stencil
GL_EXT_texture_sRGB
GL_EXT_framebuffer_blit
GL_EXT_framebuffer_multisample
GL_EXT_gpu_program_parameters
GL_EXT_gpu_shader4
GL_EXT_packed_float
GL_EXT_texture_array
GL_EXT_texture_shared_exponent
GL_EXT_draw_buffers2
GL_EXT_texture_integer
GL_NV_conditional_render
GL_EXT_transform_feedback
GL_EXT_vertex_array_bgra
GL_EXT_texture_swizzle
GL_EXT_provoking_vertex
GL_EXT_texture_snorm
GL_EXT_texture_edge_clamp
GL_EXT_texture_rectangle
GL_EXT_texture_swizzle

B.2.2 OpenGL ES 1.1

The following OpenGL ES 1.1 extensions are supported:

- GL_ARB_multisample
- GL_EXT_texture_filter_anisotropic
- GL_EXT_framebuffer_blit
- GL_IMG_texture_compression_pvrtc
- GL_OES_blend_equation_separate
- GL_OES_blend_func_separate
- GL_OES_blend_subtract
- GL_OES_byte_coordinates
- GL_OES_depth24
- GL_OES_depth32
- GL_OES_draw_texture
- GL_OES_element_index_uint
- GL_OES_fbo_render_mipmap
- GL_OES_fixed_point



- GL_OES_framebuffer_object
- GL_OES_mapbuffer
- GL_OES_matrix_get
- GL_OES_point_size_array
- GL_OES_point_sprite
- GL_OES_query_matrix
- GL_OES_read_format
- GL_OES_rgb8_rgba8
- GL_OES_single_precision
- GL_OES_texture_cube_map
- GL_OES_texture_env_crossbar
- GL_OES_texture_mirrored_repeat

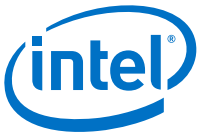
B.2.3 OpenGL ES 2.0

The following OpenGL ES 2.0 extensions are supported:

- GL_OES_depth_texture
- GL_OES_standard_derivatives
- GL_OES_texture_3D
- GL_OES_texture_npot
- GL_EXT_texture_type_2_10_10_10_REV
- GL_OES_compressed_paletted_texture
- GL_OES_packed_depth_stencil

Table 8. Non-Supported Intel® OpenGL ES APIs

Non-Supported API Name(s)
GL_OES_stencil_wrap
GL_OES_compressed_ETC1_RGB8_texture
GL_OES_matrix_palette
GL_OES_EGL_image
GL_AMD_compressed_3DC_texture
GL_AMD_compressed_ATC_texture
GL_OES_texture_float
GL_OES_texture_half_float
GL_OES_texture_float_linear
GL_OES_texture_half_float_linear
GL_OES_vertex_half_float
GL_OES_vertex_type_10_10_10_2
GL_OES_fragment_precision_high



B.2.4 EGL

The following EGL functions are supported:

- EGL_NOK_image_shared
- EGL_KHR_image_base

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