

## ATI Technologies Inc.™

### FireGL™ 7.93.4.1 Software Release Notes

#### *Software Release: 7.93.4.1*

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## Preface

This book provides information on what is new or what has changed, along with other pertinent information about the current release of the **ATI Software Display Driver** provided by **ATI Technologies Inc.** Each release cycle consist of one major release and maybe followed by up to three minor releases. The minor releases will focus on stability fixes for Windows XP and Windows 2000. No new feature will be introduced in minor releases. The **FIREGL™** Software Release Notes book is updated with amendments that outline the stability fixes for Windows XP and Windows 2000.

## Who should read this book?

This book is intended for Original Equipment Manufactures (OEM), Add In Board (AIB) customers, and Original Design Manufactures (ODM).

## What do I need to know to use this book?

This book assumes that the reader of the *FIREGL™ Release Notes* book are familiar with:

- ATI Display Adapters
- ATI Display Drivers
- The Microsoft Operating System
- The Microsoft Display Properties

## **How is this book organized?**

The *FIREGL™ Display Driver Release Notes* book is organized as follows: Chapter 1, *Overview*, provides a description of feature improvements found in the latest release of the **FIREGL™ Display Driver**.

Chapter 2, *What's New*, provides a description of what is new in the latest release of the **FIREGL™ Display Driver**.

Chapter 3, *Change Log summary for Windows XP*, provides a summary of the issues that have been resolved in the latest release of the **FIREGL™ Display Driver**.

Chapter 4, *Change Log summary for Windows 98/98SE and Millennium editions*, provides a summary of the issues that have been resolved in the latest release for the **FIREGL™ Display Driver**.

Chapter 5, *Change Log summary for Windows 2000*, provides a summary of the issues that have been resolved in the latest release for the **FIREGL™ Display Driver**.

Chapter 6, *Open Issues*, provides information on open issues associated with the **FIREGL™ Display Driver**.

Appendix A, *7.93.4.1 Resolved Issues*, provides a summary of the issues that have been resolved between **FIREGL™ Display Driver** version 7.93 and version 7.93.4.1.

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# Chapter 1 Overview

This chapter provides an overview of the **FIREGL™ Display Driver** provided by **ATI Technologies Inc.**

**1.1 Software driver support** The **FIREGL™ Display Driver** is designed to support the following Microsoft Windows platforms:

- Windows XP (SP1)
- Windows 2000

## 1.2 Desktop Product Family Support

The **FIREGL™ Display Driver** is designed to support the following **ATI** desktop product family:

**Table 1: ATI FIREGL™ Display Driver Desktop Product Support**

- FireGL™ X1
- FireGL™ Z1
- FireGL™ T2

## 1.3 Mobile product family support

The **FIREGL™ Display Driver** is designed to support the following **ATI** mobile product family:

- MOBILITY FIREGL™ T2
- MOBILITY FIRE GL™ 9000

## 1.4 FIREGL™ Display Driver Features

The **FIREGL™ Display Driver** provides users with a stable, user-friendly, and flexible software experience. The latest **FIREGL™ Display Driver** will provide users with the ultimate in graphics acceleration.

Currently supported **FIREGL™ Display Driver** features include the following:

- *Customized Logo and Background*
- *OpenGL and FireGL Hardware Acceleration*
- *HydraVision™ LE*
- *ATI Rotation Angles*
- *Atipta Single registry key*
- *Support for AMD64*
- *DALDisplayPrioritySequence key*
- *TV is not Enabled During First Boot*
- *Display Mode for Non-DDC CRT*
- *Force TV Detection*
- *Enhanced Extended Desktop Support*

- *DirectX 9.0 Warning Message*
- *Texture Preference Update*
- *INF Uninstall*
- *PowerPlay™ Support*
- *Retained Rotation Angles*
- *ATI Component Uninstall Utility*
- *Automatic Display Configuration*
- *Rotation Support for Touch Panel*
- *ATI HotKey Poller*

#### **1.4.1 Customized Logo and Background**

The ATI software driver has the ability to allow for Logo bitmap changes with the Driver InstallShield. The Logo bitmap is no longer part of the binary code, nor the packaging component. The Logo bitmap is now an optional file that the InstallShield program will first look for. The Logo file has become a background/ flash screen bitmap, and in case of a file read fail, or if the file is not available, the install program ignores the error, and installs without a background Logo.

#### **1.4.2 OpenGL and FireGL Hardware Acceleration**

The ATI software driver provides an option to show or hide the OpenGL and FireGL hardware acceleration for all **FIREGL™ MOBILITY™** products. By default the OpenGL hardware acceleration option is hidden. If the customer decides to show this option, it will be found in the Compatibility section of the OpenGL control panel.

#### **1.4.3 HYDRAVISION™**

HYDRAVISION™ is support across all **FIREGL™** based products for the Mobile, Desktop, and Integrated platforms. It is available for all supported operating systems.

HYDRAVISION™ offers four options:

- A check box function to *Enable HYDRAVISION™* is used to enable the HYDRAVISION™ panel. When the check box is un-checked all other setting within the *HYDRAVISION™* Desktop Settings area of the control panel are grayed out
- A check box function labeled *Extend my Desktop to the Second Display* is used to extend a users display to their secondary display
- A *Defaults* button is available to restore every setting option to the default position
- Clicking on the ATI logo button will list the version number of *HYDRAVISION™*

#### **1.4.4 ATI Rotation Angles**

The ATI software driver provides a *Rotation tab*, which offers the option to keep the *Standard Landscape* and *Rotate 90 Left*. When a rotation button is selected, the driver prompts the user to apply or time out.

#### **1.4.5 AtpaSingle registry key**

This option provides the ability to set the *AtpaSingle registry key*. Setting this key forces the ATI taskbar application to only run once during installation. This option is used only when the setting of the default TV standard is required.

#### **1.4.6 DALDisplayPrioritySequence key**

The ATI software driver provides the option to set the *DALDisplayPrioritySequence key* when this option is set, the display priority sequence is set as follows:

- CRT
- TV
- LCD
- CV
- CRT\_2NDDAC
- DFP
- DFP\_EXTTMDS

#### **1.4.7 Display Mode for Non-DDC CRT**

The ATI software driver now sets the display mode for non-DDC CRTs to 800x600 when the Auto Display Configuration is enabled, and non-DDC CRTs are connected.

#### **1.4.8 Enhanced Extended Desktop Support**

The ATI **FIREGL™** software display driver now supports extended desktop based on active devices rather than hard-coded device precedent vector during the initial extending of the desktop.

#### **1.4.9 DirectX 9.0 Warning Message**

The ATI **FIREGL™** software display driver detects the version of DirectX installed on a users system. If the DirectX support is less than 9.0 a warning message is displayed interrupting the driver installation. The warning message reads; DirectX 9.0 is not installed. Please install it before installing the display driver.

#### **1.4.10 Texture Preference Update**

The ATI **FIREGL™** software display driver updates the default setting for the Texture Preference option (ATI OpenGL tab) to High Quality.

#### **1.4.11 INF Uninstall**

The ATI **FIREGL™** software display driver, contains the driver version within the INF uninstall section as per Microsoft conformity specs.

#### **1.4.12 POWERPLAY™ Support**

The ATI **FIREGL™** software display driver provides **POWERPLAY™** support for the ATI **MOBILITY™ FIREGL™ T2 series**. **POWERPLAY™** is a revolutionary power management technology which is used to dramatically reduce the power consumption of ATI's **MOBILITY™ FIREGL™** family of graphics products, as well as overall system power consumption. **POWERPLAY™** provides optimal balance between performance and power, with the ability to deliver high performance when needed and to conserve power when

the demand on the graphics processor is low. **POWERPLAY™** currently provides one power saving mode and a normal mode for the ATI **MOBILITY™ FIREGL™ T2** series.

#### **1.4.13 Retained Rotation Angles**

The mode persistence table has been enhanced to retain the stored device profile for the rotation angle. The rotation angle would be remembered based on the connected devices. Once the desired rotation angle is set, it would not need to be manually reset. This feature is supported under Windows XP and 2000 operating systems.

##### **1.4.13.1 Display Devices Supported for Retained Rotation Angle**

This retained rotation angle feature is supported on the following display devices:

- Internal LCD
- CRT Displays
- VGA Monitors
- VGA Flat Panel Displays
- Projectors
- S-Video Out
- Television
- NTSC
- PAL
- DVI Displays
- DVI Flat Panel LCD
- DVI Projectors

##### **1.4.13.2 Default Resolutions Supported for Retained Rotation Angle**

The default resolutions supported for the retained rotation angle feature (depending on the scenario) is as follows:

- Native LCD Resolution
- Lowest of Maximum Extended Display Identification Data (EDID) resolutions
- 800 x 600 for display devices that do not support EDID

##### **1.4.13.3 Display Device Configurations for Retained Rotation Angle**

The following display device configurations for retained rotation angles are supported:

- LCD Only
- CRT Only (LCD Lid Close)
- DVI Only (LCD Lid Close)
- LCD + CRT
- LCD + TV
- LCD + DVI
- LCD + DVI + CRT
- LCD + DVI + TV
- LCD + CRT + TV

- LCD + DVI + VGA + TV
- CRT + DVI (LCD Lid Close)
- CRT + TV (LCD Lid Close)
- DVI + TV (LCD Lid Close)
- CRT + DVI + TV (LCD Lid Close)

#### **1.4.14 ATI Component Uninstall Utility**

The ATI component uninstall utility now provides a full one step uninstall of the ATI driver, WDM driver, and ATI control panel. The uninstall utility now deletes all ATI\*. \* files found in the system folders and system registry. This feature is available for the Windows XP, and 2000 operating systems.

#### **1.4.15 Automatic Display Configuration**

The Automatic Display Configuration feature is supported under the Windows 2000, and XP operating systems. This features stores display settings such as:

- Resolution
- Color depth
- Refresh rate
- Rotation angle
- Display to CRT Controller mapping
- Extended desktop settings in a display profile

The display profile is then applied based on OEM selectable events such as: bootup (login)

- resume (login)
- user switch (login)
- fast user switch
- device switch through ACPI
- SMI hotkeys
- hot plug/unplug
- lid close/open
- docking/undocking

Along with other events controlled by System BIOS through “Configure Displays” int10 function call.

#### **1.4.16 Rotation Support for Touch Panel**

Rotation support for Touch Panels is now provided in the latest version of the **FIREGL™** Software Display Driver. This feature is functional under the Windows 2000, and XP operating systems, and allows the rotation support currently offered by ATI Technologies Inc. to be extended to Touch Panels. **Note:** Upon bootup and resume, the display profile is applied after user login. A list of display profiles is maintained in the Windows registry on a per user basis. The display profile is created whenever the driver is requested to apply display settings, and a new display device combination is detected.



### **1.4.17 ATI HotKey Poller**

In certain system environments, a user may have encountered a situation where the ATI HotKey Poller is started by the operating system after a user has logged on to the system. The ATI HotKey Poller controls functions such as the HotKey device switching and this function will not work if the service is not loaded. The ATI HotKey Poller with LoadOrderGroup now has a high boot up priority to resolve this issue.

## ***Chapter 2: What's New***

This chapter provides information on what is new in the latest release of the **FIREGL™ Display Driver**.

### **2.1 New Features**

This section provides information on new features found in this release of the **FIREGL™ Display Drivers**. This includes the following:

- *New Product Support*
- *Single Profile per Device Type*
- *Extended Desktop removed from Hot-Key in Mode Persistence*
- *Display Driver Version Information*

#### **2.1.1 New Product Support**

The latest ATI **FIREGL™** Display Driver now provides support for the ATI **MOBILITY™ FIREGL™ T2** series.

#### **2.1.2 Single Profile per Device Type**

The Automatic Display Configuration (ADC) feature stores display settings such as; resolution, color depth, refresh rate, rotation angle, display to CRT Controller mapping, and extended desktop settings in a display profile. A list of display profiles is managed in the Windows registry on a per user basis. The display profile is created whenever the driver is requested to apply display settings and/or a new display device combination is detected. This new feature allows for one profile to be used for one device type in spite of the variation of capability of the device. Should a CRT have the capability of 1400x1200, and a second CRT have the capability of 1024x768. The profile for these two CRTs will be the same one. This feature allows the user to have same set-up on one type of device regardless of any other devices having different capabilities from the other.

#### **2.1.3 Extended Desktop removed from Hot-Key in Mode Persistence**

Extended desktop has now been removed from hot-key in the mode persistence. The applied mode is now LCD+CRT simultaneous, instead of LDC+CRT extended.

#### **2.1.4 Display Driver Version Information**

The latest ATI **FIREGL™** display driver now provides display driver version information during the installation or un-installation of the FireGL Control Panel, the display driver Control Panel, and HydraVision. This feature is found under the Windows XP and Windows 2000 operating systems.

## Chapter 3 Change Log summary for Windows XP

This chapter provides the Change Log summary for **FIREGL™ Display Driver** version 7.93 for the **Microsoft Windows XP** operating system.

### 3.1 Summary of Resolved Issues

The following table provides a summary of the issues that have been resolved in the latest version of the **FIREGL™ Display Driver** for the **Microsoft Windows XP** operating system.

**Table 2: Change Log Summary for Windows XP**

Report Headline	Functional Area
7 An error message indicating that the colours are out of tolerance is no longer displayed when running the BobWeave test under Windows XP with a FIREGL X1 series card installed	DirectDraw/Direct3D
Anti-Aliasing is now working after changing back from an off screen render target to a multisample target	DirectDraw/Direct3D
Running a non-fullscreen OpenGL application and a non-fullscreen DirectX, Direct3D, or DVD application no longer results in tearing artifacts being displayed	Display Driver
The default GMC values are now programmed correctly in the CMM	Display Driver
The Central Memory Manager now correctly reports and manages memory banks	Display Driver
Display corruption no longer appears when connecting a specific OEM monitor to an ATI MOBILITY FIREGL 9000 family product and setting the display resolution to 640x480 60Hz	Display Driver
Enabling clone mode followed by setting the display resolution to 1200x800 no longer results in the CRT being in pan mode	Display Driver
Display is now visible on the LCD under Windows XP and 2000 when the system is in LCD only mode	Display Driver
Installing a FIREGL T2 series card under Windows XP no longer results in 1600x1200 75Hz no being available on a specific OEM monitor	Display Driver
The DDC/CI interface DLL is now working correctly	Display Driver
The External Event Utility no longer causes the XP Remote Desktop User failing to log-off	Display Driver
Rotation from 180 to 270 or 90 degrees is now working correctly	Display Driver
The secondary monitor and the extended desktop setting are no longer active once the secondary display adapter has been disconnected	Display Driver
Docking and undocking a specific OEM system no longer results in the system failing to respond	Display Driver
Docking the system with a CRT connected and extending the desktop with the CRT set as primary, no longer results in the display driver unloading after doing a display rotation and undocking the system	Display Driver
Enabling extended desktop and rotating the CRT image 90 degrees followed by disconnecting the CRT no longer results in no display image when hot plugging the CRT back to the system	Display Driver
The mouse cursor no longer disappears when setting the display resolution to 800x600 16bpp 60Hz or lower	Display Driver
Setting the colour depth to 16bpp and running a DirectX application such as Dolphin no longer results in display corruption when the	Display Driver

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application window is adjusted to certain sizes	
Enabling extended desktop with the LCD set as primary (1400x1050) and the CRT set as secondary (1280x1024) followed by rotating the CRT and the LCD no longer results in the LCD display becoming blank and the ATI control panel displaying warning messages	Display Driver
When the AGP Fastwrite is disabled it no longer appears to be enabled in both the Private and Public Smartgart control panels	Display Driver
The device name for FireGL T2-128 is now displayed correctly in the FireGL information TAB found in the display control panel	Display Driver
The multifunction device, vpUpdateSecondHWE() disable the primary/secondary driver order has now been corrected	Display Driver
Disabling Extended Desktop with two Adapters and four Displays no longer results in corruption on one display	Display Driver
The ATI Options page no longer displays incorrect information about the graphic card's memory size under the traditional Chinese version of Windows XP	Installation
The VBIOS number does now reflects the current version number in the control panel	Installation
Installation of the display driver now updates the version information displayed in the ATI Option tab of the display properties	Installation
System boot sector is no longer deleted if you Uninstall ATI-Software Utility after all other ATI components are removed	Installation
The Windows XP operating system no longer fails to respond when attempting to resume from hibernate mode	MultiMedia Driver
Executing conform.exe at a command prompt no longer results in a general protection fault	Open GL (Workstations)
Setting the FireGL configuration profile to Unigraphics followed by running nx_auto_script.bat no longer results in the system failing to respond	Open GL (Workstations)
The memory access violation error message when responding to an interoperation request under Unigraphics NX1 is now resolved	Open GL (Workstations)
Minimizing the Studio Tools application window followed by maximizing the Studio Tools window no longer results in the Studio Tools menu bar not being displayed	Open GL (Workstations)
Running the test suite 2.2 found in Studio Tools and moving the Shader, Toggle Shade Settings and Texture sub-windows around the desktop no longer results in the sub-windows not being redrawn properly	Open GL (Workstations)
Running the Studio Tools test suite 4 no longer results in a failure	Open GL (Workstations)
Attempting to run the application ICEM Surf with Full Screen Anti-Aliasing enabled at 6x no longer results in the application failing toRespond	Open GL (Workstations)
X29 no longer displays corruption when running under Windows XP with the FireGL X2 installed	Open GL (Workstations)
The SolidEdge window not being refreshed properly when another application window overlaps it is now resolved	Open GL (Workstations)
Running the ProE 2001 or Pro/Engineer Wildfire benchmark and test cases no longer results in the benchmark application failing to respond	Open GL (Workstations)
The Multithread demo no longer stops responding when the application window is resized. This issue was known to occur under the Windows XP operating system with a FIREGL X1, Z1 series of card installed	Open GL R300
The system failing to respond when running the HU2.exe application under Windows XP with a FIREGL X1, Z1 series card installed is now resolved	Open GL R300
Quickcheck ARBVertexBufferObj test no longer stop responding with	Open GL R300

forced software rendering	
Running the QuickCheck GL2ShaderLanguage test with Force Software ICD enabled in the private panel no longer results in the Texcoords 7 and 8 not getting clipped properly when running through the software	Open GL R300
Frames dropping when playing interlaced HD stream under VMR mixing mode is now resolved	Overlay
Disabling extended desktop after enabling Clone Mode and Overlay Theater Mode no longer results in Overlay Theater Mode not being displayed on the secondary adapter once extended desktop is re-enabled	Overlay
Connecting two display adapters and setting them to clone mode followed by playing a file using the RealOne player v6.0 no longer results in playback corruption after selecting No to switching from the primary to the secondary display adapter	Overlay
Configuring VMR mixing mode with deinterlace when using Graphedt.exe to play an HDTV source no longer results in overlay scaling bline incorrect when 32 bpp is selected or having display corruption when 16 bpp is selected	Overlay
The installation of the ATI Unified Driver now indicates that it is installing an ATI Display Driver instead of a RADEON Display Driver	Packaging

## ***Chapter 4 Change Log summary for Windows 2000***

This chapter provides the Change Log summary for **FIREGL™ Display Driver** version 7.93 for the **Microsoft Windows 2000** operating system.

### **4.1 Summary of Resolved Issues**

The following table provides a summary of the issues that have been resolved in the latest version of the **FIREGL™ Display Driver** for the **Microsoft Windows 2000** operating system.

**Table 3: Change Log Summary for Windows 2000**

<b>Report Headline</b>	<b>Functional Area</b>
Connecting an LCD display as primary and a CRT display as secondary followed by unplugging the AC adapter and entering AC mode no longer results in display corruption	Display Driver
Maximizing the Media Player version 9.0 while playing an MPEG3 file no longer results in slow frame display. This issue is known to occur on a specific OEM laptop system only	Display Driver
Setting the display properties to 1024x768 16bpp under Windows 2000 SP3 (Japanese), and selecting the 3D Pipes as the default screen saver, no longer results in a miniature window of the screen saver appearing on application windows when resuming from S3	Open GL
Setting the display to 800x600 32bpp 100Hz followed by enabling triple buffering no longer results in display corruption when playing Counter-	Open GL

Strike	
Running the application X29, followed by entering a full screen DOS session no longer results in an application error notice when returning to Windows from the full screen DOS session	Open GL (Workstations)
Enabling wide desktop with the LCD as the primary and the CRT extended right no longer results in display corruption when the 3D Pipes screen saver is selected at 1600x1200 16bpp	Open GL (Workstations)
Setting the desktop to 1024x768 32 bpp followed by running the ViewPerf 7.1 Drv-09 or Proe-02 test no longer results in the system not responding. This issue is known to occur with the FireGL series of cards installed under the Windows 2000 OS	Open GL (Workstations)
Setting the display resolution to 1024x768 32bpp followed by entering a full screen playback mode with large desktop enabled no longer results in the video spanning both the LCD and CRT	Overlay

## Chapter 5 Open Issues

This chapter provides a brief description of the open issues associated with the **FIREGL™ Display Driver** version 7.93.

### 5.1 Errata Report summary

The following tables provide the Errata report summary of current open issues.

**Table 4: Open Issues Summary for Windows XP**

<b>Report Headline</b>	<b>Functional Area</b>
The ATI Control Panel Test is failing on overlay when Windows is extended to a secondary desktop	ATI Control Panels
Setting the display resolution to 1024x768 32bpp and rotating the display, followed by playing a video or DVD results in poor system performance	Display Driver
Setting the display properties to 1280x1024 32bpp and attempting to rotate the display image 90° to the left results in an error message being displayed	Display Driver
No Content Sensitive Help or Help Information is found in the new ATI Control Panel Tab	Localization
Background colours are inconsistent when the moving square in the Bob-Weave test is changed from interlace to non-interlace MS Support	
Installing the application OpenGL SPECglperf3.1.2 and running it results in a device failure message	Open GL

## Appendix A: Resolved Issues for Minor Release 7.93.4.1

This addendum provides the change Log summary for **FireGL Display Driver** version 7.93.4.1 for both the **Microsoft Windows 2000** and **Microsoft Windows XP** operating systems.

## **A.1 Summary of Resolved Issues**

The following table provides a summary of the issues that have been resolved between the **FireGL™ Display Driver** version 7.93 and version 7.93.4.1 for both the **Microsoft Windows 2000** and **Windows XP** operating systems.

**Table 5: Change Log Summary for Minor Release 7.93.4.1**

<b>Report Headline</b>	<b>Functional Area</b>
Pro/ENGINEER Wildfire crash using Pro ENGINEER profile. Default profile OK	OpenGL (Workstation)
Need "AGPLLevel" Added To [ati2mtag_RemoveDeviceSettings] Section of Win2K INF. Already In XP INF	Packaging
FireGL X1 7.92 Beta Driver: Application Error Closing Vitrea 2 or Any Viewperf 7.1a Window	OpenGL (Workstation)
3dsmax 4.26 SPECapc Benchmark Severe Screen Corruption When App Window Maxed To Desktop	OpenGL (Workstation)
T2 UG17 is missing shading with UG profile selected on Solid_part.prt	OpenGL (Workstation)
T2 Microstation V8 Dr.Watson in ATIOGLGL.DLL w ZTEST from Bentley	OpenGL (Workstation)
M9 3dsmax 5.1 Reactor preview corrupts buttons	OpenGL (Workstation)
X1 SolidWorks 2001 Benchmark- improper memory release	OpenGL (Workstation)
X1/X2 Studio Tools 11 beta Smooth cannot switch off AA	OpenGL (Workstation)
X1 Avid Left monitor image appears when opening or creating new seq	OpenGL (Workstation)
X1 Vital Images Vitria - Settings to improve memory usage	OpenGL (Workstation)
Vitrea2 Only Able To Get 1845MB Memory. NVIDIA and 3Dlabs Products Give 2700MB. (Application Profile Changes in place)	OpenGL (Workstation)
FireGL: dlcyl.exe has program failure on close in dual screen mode	OpenGL (Workstation)
Stop 0x1E Error In Pro/ENGINEER 2001 IntraLink with Komatsu part	OpenGL (Workstation)
Full Scene AA does not work with ICEM Surf	OpenGL (Workstation)
Severe Corruption or Stop Err Moving OpenGL Windows After Enabling 2nd Display or Changing Resolutions	OpenGL (Workstation)
FireGL X1 7.92 Beta Driver: Application Error Closing Vitrea 2 or Any Viewperf 7.1a Window	OpenGL (Workstation)
FireGL Z1/X1: Window Move Stress generates application error then deadlock	OpenGL (Workstation)
System Hang When Cascading or Tiling OpenGL Redbook Demos - Only After Application Error	OpenGL (Workstation)
Inventor memory usage is too high	OpenGL (Workstation)
Inventory Draft coloraction appears faceted when zooming out part	OpenGL (Workstation)
SolidEdge refresh problem when overlapping windows on XP	OpenGL (Workstation)
SolidEdge display problem in application	OpenGL (Workstation)
Unigraphics NX blue screen when loading bigpart.prt for benchmark	OpenGL (Workstation)
I-DEAS 10 blue screen after application start up	OpenGL (Workstation)
I-DEAD 9m3 black display after starting 3D screensaver	OpenGL (Workstation)
SolidEdge 15 dual screen and multiple windows not working right	OpenGL (Workstation)

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SolidEdge 15 application cannot start in dual screen	OpenGL (Workstation)
Bentley Microsfation test application does not display correctly	OpenGL (Workstation)
SolidWorks 2003 SP4 multiple windows test suite failure	OpenGL (Workstation)
Unigraphics v17 missing shading with UG profile selected on solid_part.prt	OpenGL (Workstation)
Maya 4.5 or 5.0 viewport black in dual display	OpenGL (Workstation)
ICEM Surf crashes at startup with 6X FSAA	OpenGL (Workstation)
Stencil not moving with windows	OpenGL (Workstation)
Disable "Double buffered overlay planes" option in ICEM Surf application profile	OpenGL (Workstation)
FireGL T2-64s: Deadlock Running 3dsmax 4.26 SPECapc Benchmark w/3dsmax Profile Selected	OpenGL (Workstation)
Patterned lines do not display properly on FireGL X1, Z1, T2s	OpenGL (Workstation)
FireGL X1 - Incorrect Lighting On Smooth Shaded Objects In Benchmark (KAPL-Bench99)	OpenGL (Workstation)
FireGL T2s: UG NX ISV Certification Issue - App Stops Updating Window w/Multiple Viewports	OpenGL (Workstation)

**Table 5: Change Log Summary for Minor Release 7.93.4.1**

## A.2 Errata Report summary

The following tables provide the Errata report summary of current open issues.

**Table 6: Open Issues Summary for Minor Release 7.93.4.1**

Report Headline	Functional Area
Severe Corruption, Hang, Windows Device Error, or Stop Err After Enabling 2nd Display or Changing Resolutions With OpenGL Running	OpenGL (Workstation)
SPECapc Benchmark For Pro/ENGINEER 2001 Fails Due To Internal Memory Error on low memory systems.	OpenGL (Workstation)
3dsmax 4.26 Discreet Benchmark Severe Screen Corruption with rasterize.max scene in dual screen mode	OpenGL (Workstation)
Unable to uninstall FireGL Control Panel and 3dsmax driver without ATI hardware in system	Install
Menu Corruption In Stencil Mirror Direct3D Demo In Full Screen Mode	DirectDraw/ Direct3D