

Autodesk®

Inferno® 2009 Extension 1 SP1

A Discreet® Systems product

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Flame® 2009 Extension 1 SP1

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Flint® 2009 Extension 1 SP1

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Release Notes

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Published by: Autodesk, Inc.
111 McInnis Parkway
San Rafael, CA 94903, USA

Title: Autodesk Inferno, Autodesk Flame, and Autodesk Flint 2009 Extension 1 SP1 Release Notes
Document Version: 1
Date: October 23, 2008

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Release Information



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- [Related Documentation](#) on page 2
- [Contacting Autodesk](#) on page 2

About these Release Notes

This document provides requirements and last-minute information for the following Autodesk® applications:

- Autodesk Inferno® 2009 Extension 1 Service Pack 1
- Autodesk Flame® 2009 Extension 1 Service Pack 1
- Autodesk Flint® 2009 Extension 1 Service Pack 1

Overview of Updated Sections

The following sections are new or have been updated for Service Pack 1:

- [Using the copyProjects Utility with the Correct Application Version](#) on page 12

- [Incorrect Wiring Information in the HP xw8600 Workstation Hardware Setup Guide](#) on page 13

For information on major and minor issues fixed in Service Pack 1, see the *Autodesk Visual Effects and Finishing 2009 Extension 1 Fixed and Known Bugs* document. You can get the latest version of this document from the Autodesk Web site at <http://www.autodesk.com/me-documentation>.

Related Documentation

This release has documentation that helps you install, configure, and use your product. It is available from your product as a Web-based help system and as PDF files.

- To view the Help from anywhere in the application, press **Ctrl+=**.
- To view PDF documentation from the application, go to the Preferences menu and select a document from the PDF Preference box.

For complete information on viewing PDF documentation and Help, see the “Introduction” chapter of your application User Guide.

For a list of all the latest documentation that is available to you, see:

- www.autodesk.com/inferno-documentation
- www.autodesk.com/flame-documentation
- www.autodesk.com/flint-documentation

Contacting Autodesk

For Autodesk Media and Entertainment Customer Support, visit <http://www.autodesk.com/support>.

Customer support is also available through your Autodesk reseller. To find a reseller near you, consult the reseller look-up database at <http://www.autodesk.com/resellers>.

System Information

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- [Using the copyProjects Utility with the Correct Application Version](#) on page 12
- [Incorrect Wiring Information in the HP xw8600 Workstation Hardware Setup Guide](#) on page 13

Release Requirements

Consult the following table to verify that your system meets the minimum requirements for this release.

Component:	Requirement:	See:
Workstation	■ HP xw8600	Hardware setup guide for your workstation
	■ HP xw9400	
	■ HP xw8400	
	■ IBM® 6217 DC	
	■ IBM 6217 SC	
	■ IBM 6224	
Operating system	■ HP workstations: Red Hat® Enterprise Linux® WS 4, Update 3 (64-bit)	<i>Autodesk Visual Effects and Finishing Red Hat Enterprise Linux Workstation 4 Installation and Configuration Guide</i>
	■ IBM workstations: Red Hat Enterprise Linux WS 4, Update 2 (64-bit)	

New DKU Version 3.5.0

The current release of your Visual Effects and Finishing application requires version 3.5.0 of the *Discreet Kernel Utilities* (DKU). If you are upgrading from a previous release, you need to perform a DKU upgrade.

For information about upgrading the DKU on your workstation, see the *Red Hat Enterprise Linux Workstation 4 Installation and Configuration Guide*, Update 2 or Update 3.

Mandatory AJA OEM 2K Firmware Upgrade

If your HP workstation is equipped with an AJA OEM 2K board, the firmware of the board must be upgraded to version 0x73 to use it with the current release of your Visual Effects and Finishing application.

To verify the AJA PCI-X firmware version:

- 1 Open a terminal and type:
cat /proc/driver/aja

If `PCI version` lists a different version than the required one, then you must upgrade the firmware. For upgrade instructions, see the Hardware Setup Guide for your workstation.

NOTE Before upgrading the AJA firmware, make sure you have upgraded the DKU, and that you have restarted the system.

Licensing

As an eligible subscription customer, you will receive a new license for the 2009 Extension 1 version of your product. See the Software Installation Guide for instructions on installing your license code.

Compatibility

Projects and clip libraries created in previous releases are read-only in your Extension application.

To access media in projects created in previous releases, you must first create new projects in the Extension release. Then, you must transfer the media from your old projects to the new ones using the Network panel in the Clip Library (Autodesk Wire®).

There is a new tool that copies your old projects to new projects, which can ease the process of migrating many projects to the new version. For details, see the “Compatibility” topic of your application Help or user guide.

Previous releases cannot read clip libraries from this release.

Autodesk recommends archiving your media and project data before you upgrade.

Additional Software for this Release

The following table lists the version numbers for supporting software for this release.

Software	Version
Autodesk Backburner™	2008.1.1
Autodesk Lustre® Color Management	2008
Autodesk WiretapCentral™	2009.1
Autodesk Cleaner® XL	1.5.2

About the new *vref* Tool

vref is a tool that automatically starts with Visual Effects and Finishing applications, and runs in the background. When a frame or audio segment is deleted from the application, *vref* checks that the respective media was not in use by a clip, in order to prevent missing frames.

In the unlikely event that the media was in use, an error message is displayed. Autodesk strongly recommends you to run the *vic* utility, and to contact Customer Support to report this event. See the application user guide for information on the *vic* utility.

If you are using a Stone® filesystem volume, *vref* attempts to repair the problem and recover the deleted media. Deleted media from standard filesystem volumes cannot be recovered by *vref*.

When *vref* is running in the background, deleting large numbers of frames takes longer, and the application might take longer to exit, as it waits for *vref* to finish checking frames.

You may disable *vref* if the checking takes too long. Be aware that doing so will reduce your protection against lost frames.

To disable *vref*:

- 1 Exit the Visual Effects and Finishing application.
- 2 As the application user, open a terminal and type the following command on one line:

```
touch  
/usr/discreet/<application_directory>/bin/.no_vref
```

For example:

```
touch /usr/discreet/flame_2009.1/bin/.no_vref
```

A file named *.no_vref* is created in the *bin* directory of the application.

- 3 Start the application.
vref no longer starts with the application.

To re-enable *vref*:

- 1 Exit the Visual Effects and Finishing application.
- 2 As the application user, open a terminal and type the following command on one line:

```
rm  
/usr/discreet/<application_directory>/bin/.no_vref
```

For example:

```
rm /usr/discreet/flame_2009.1/bin/.no_vref
```

The *.no_vref* file is removed from the *bin* directory of the application.

- 3 Start the Visual Effects and Finishing application.
vref now starts with the application, and runs in the background.

Troubleshooting Missing Frames

If the application cannot find some of the frames referenced by your clips, the following error message is displayed when the application starts:

■ In the terminal:

```
WARNING: <nnnn> <volume_type> frames are missing on  
this volume; see Release Notes for corrective  
measures.
```

Where <nnnn> represents the number of missing frames, and
<volume_type> can be *stonefs* or *standardfs*.

■ In the application start-up screen:

```
VOLUMEMGT: WARNING: Some frames not found; see  
Release Notes for corrective measures.
```

NOTE By default, the message only appears in the terminal. To have it appear also in the start-up screen, you must configure the application. See [Setting the Start-up Screen Message](#) on page 9.

The error message appears in one or both of the following situations:

- Some clips in your libraries or desktops reference missing frames on a remote volume.
- Some clips in your libraries or desktops reference local frames that no longer exist.

To identify the type of issue:

- 1 Open a terminal and type:

```
vic -v <volume_name> -s remote -s lost
```

where `<volume_name>` is the name of the affected volume, for example `stonefs` or `standardfs`.

The output of this command should be similar to the following:

```
Checking libraries for remote and lost frames...
/usr/discreet/clip/stonefs/My_Project1/editing.000.desk
has none
/usr/discreet/clip/stonefs/My_Project1/Default.000.clib
references 30 missing frames.
/usr/discreet/clip/stonefs/My_Project2/editing.000.desk
has none
/usr/discreet/clip/stonefs/My_Project2/from_caplan.000.clib
references 70 remote frames
```

Depending on the result of the previous command, do one of the following:

- For clips with frames listed as missing, contact your local Autodesk support representative for help on resolving this issue.
- For clips with frames listed as remote, perform the following procedure.

To recover remote frames:

- 1 Archive all clip libraries that are reported as containing remote frames. In the previous example, the fourth library (`from_caplan`) contains remote frames.

- 2 Rename the libraries you just archived, such as by adding the remote suffix to the library name.
- 3 Restore the clip libraries from the archive. All the frames referenced by the clips should now be stored locally.
- 4 Delete the original libraries.

Setting the Start-up Screen Message

By default, the message about missing frames only appears in the terminal. To make it appear in the application start-up screen, create an environment variable called `DL_IC_NOTIFY_MISSING`. Open a terminal and type:

```
setenv DL_IC_NOTIFY_MISSING 1
```

NOTE The environment variable is set for the current session only. To set it permanently, open the `~/.cshrc` file in a text editor and add the following on a new line: `setenv DL_IC_NOTIFY_MISSING 1`

Removing Invalid Frame References from the Stone and Wire Database

The current release of Stone and Wire introduces a new database inconsistency detection mechanism.

If you change the framestore ID of a Stone filesystem or standard filesystem partition in your system without reformatting the Stone and Wire database, when you restart Stone and Wire the inconsistency check mechanism detects invalid frame references in the database, and prevents the Stone and Wire database server (`sw_dbd`) from starting.

If you receive an error message that `sw_dbd` could not be started when you start a Visual Effects and Finishing application or Stone and Wire, perform the following steps to determine if the problem is related to invalid frame references, and to remove those references from the Stone and Wire database.

To remove invalid frame references from the Stone and Wire database:

- 1 Open a terminal and log in as root.
- 2 Search the `/usr/discreet/sw/log/sw_dbd.log` file for the text “Bad framestore ID”:

```
cat /usr/discreet/sw/log/sw_dbd.log | grep -i bad/  
framestore/ id
```

- If the search returns one or more lines, the problem is related to invalid frame references. Perform the remaining steps in this procedure to clean up the Stone and Wire database.
- If the search returns no results, the problem is not related to invalid frame references. Read the */usr/discreet/sw/log/sw_dbd.log* file to determine the cause of the problem.

3 Stop Stone and Wire by typing:

```
/etc/init.d/stone+wire stop
```

4 Clean up the Stone and Wire database by typing:

```
/usr/discreet/sw/sw_dbd -C
```

A message is displayed in the terminal asking you to confirm the deletion of invalid entries from the database.

5 Type **Y** to confirm the operation.

Invalid entries are removed from the Stone and Wire database.

6 Restart Stone and Wire by typing:

```
/etc/init.d/stone+wire start
```

Disabling Local Stone and Wire I/O on Burn Nodes

In cases where a Burn render node has a slower connection to a shared storage device (such as a SAN) than the Visual Effects and Finishing workstation it is preferable for Stone and Wire I/O operations to be performed on the Visual Effects and Finishing workstation, rather than on the render node.

Perform the following procedure to disable all local Stone and Wire I/O operations on a Burn render node.

To disable local Stone and Wire I/O operations:

1 Open a terminal on the Burn render node, and log in as root.

2 Stop Stone and Wire by typing:

```
/etc/init.d/stone+wire stop
```

- 3 Open the `/usr/discreet/sw/cfg/stone+wire.cfg` configuration file in a text editor.
- 4 Locate the `DisableLocalIO` keyword in the `[Initialization]` section.
- 5 Uncomment the keyword if necessary, and set its value to true:
`DisableLocalIO=True`
- 6 Save and close the configuration file.
- 7 Restart Stone and Wire by typing:
`/etc/init.d/stone+wire start`

DKU Installation in Text Mode on GPU Burn Nodes

After installing Linux on Burn nodes equipped with the NVIDIA® Quadro® FX 3700 graphics board, you need to boot Linux in text mode and install the latest version of the DKU before being able to use Linux in graphic mode on the Burn node.

The DKU installs and configures the driver for the new graphics card, and makes the appropriate changes in the `/etc/X11/xorg.conf` file.

To boot Linux in text mode and install the DKU:

- 1 Once Linux is installed, reboot your Burn node.
The Linux boot loader appears.
- 2 Press any key to stop the normal boot process and enter the GRUB boot menu.
- 3 Using your keyboard up and down arrows, select your Linux kernel (usually the first one in the list), and press **A** to edit its boot parameters.
- 4 Add a 3 to the end of the kernel line to force Linux to boot into text mode.
The modified line should be similar to the following:
`ro root=LABEL=/ hdc=ide-scsi selinux=0
bigphysarea=73729 powernow-k8.disable=1 3`
- 5 Press ENTER to accept changes and boot the kernel.
Linux boots into text-only mode.

- 6 Log in as root and follow the normal DKU installation procedure. See the *Red Hat Enterprise Linux Workstation 4, Update 3 Installation and Configuration Guide*.
- 7 When the DKU installation completes, reboot your Burn node.
Linux boots in normal graphic mode.

Using the `copyProjects` Utility with the Correct Application Version

The new `copyProjects` command-line tool that was introduced in the 2009 Extension 1 version of Visual Effects and Finishing applications uses Autodesk Wiretap® to copy projects from previous versions of Visual Effects and Finishing applications to the most recently installed version.

This can lead to undesired results if, before running the `copyProjects` tool, you install an older version, such as 2009 SP3, on a workstation that had 2009 Extension 1 already installed. In such cases, since the 2009 Service Pack is the most recently installed version, the `copyProjects` tool would copy project data to that version instead of the 2009 Extension 1 version.

To avoid this issue, Autodesk recommends running the `copyProjects` utility immediately after installing your 2009 Extension 1 application. See the Compatibility chapter of your application User Guide for information on running the `copyProjects` tool. Avoid installing other versions, such as 2009 Service Packs, after 2009 Extension 1 if you have not already migrated your projects to 2009 Extension 1.

If you have already run `copyProjects` in the context described above, and your projects were copied to the wrong version of the application, use the following procedure to change the default Wiretap server back to version 2009 Extension 1, and to run the `copyProjects` utility again.

NOTE You do not need to use the `copyProjects` tool to migrate projects from 2009 Extension 1 to 2009 Extension 1 SP1. The 2009 Extension 1 SP 1 version can read projects created in 2009 Extension 1, as clips and projects are compatible between service packs of the same release or extension.

To run `copyProjects` with the correct version of Wiretap:

- 1 Open a terminal and log in as root.
- 2 Determine the current version of Wiretap by typing:

```
ls -als /usr/discreet/sw/sw_wiretapd
```

This command should return a link to the 2009.1 (2009 Extension 1) version of Wiretap:

```
/usr/discreet/sw/sw_wiretapd ->  
/usr/discreet/wiretap/2009.1/iffesWiretapServer.start
```

If the link points to a different version (for example 2009.SP3), perform the rest of this procedure.

- 3 Stop Stone and Wire by typing:

```
/etc/init.d/stone+wire stop
```
- 4 Unlink the Wiretap startup script by typing:

```
unlink /usr/discreet/sw/sw_wiretapd
```
- 5 Link the Wiretap startup script to the 2009 Extension 1 version by typing:

```
ln -s  
/usr/discreet/wiretap/2009.1/iffesWiretapServer  
/usr/discreet/sw/sw_wiretapd
```
- 6 Start Stone and Wire by typing:

```
/etc/init.d/stone+wire start
```
- 7 Run the *copyProjects* script again. See your application User Guide for details.

NOTE Since you are running the *copyProjects* utility for the second time, it also detects the project copies created by the first execution of the script, and will create duplicates of those as well. To avoid having multiple copies of each project, do not answer “all” when prompted to confirm the copy operation. Answer “yes” only for your original projects, and “no” for copies of projects created by the first execution of the *copyProjects* script.

Incorrect Wiring Information in the HP xw8600 Workstation Hardware Setup Guide

The “Video Hardware Components” and “Wiring Your Video Components” sections in the *Autodesk Visual Effects, Finishing, and Colour Grading HP xw8600 Workstation Hardware Setup Guide* mention an incorrect model number of the AJA distribution amplifier, as well as incorrect VTR output port connections for Real Time Deliverables.

The correct model number of the AJA distribution amplifier is AJA HD5DA, and not AJA HD10DA, as specified in the text of the above-mentioned sections and in the accompanying Video I/O wiring diagram.

For a correct VTR installation for Real-Time Deliverables, the second bullet in the “Wiring Your Video Components” section should read:

For Real-Time Deliverables, input port A of the VTR connects to the AJA HD5DA distribution amplifier (for 4:2:2 signal), and input port B connects to the middle connector on the NVIDIA SDI board (for dual link 4:4:4 signal). The VTR output ports A and B connect to the SDI In A and B ports of the AJA breakout box.

A corrected version of the Hardware Setup Guide is available on the Autodesk Web page, at <http://www.autodesk.com/me-documentation>.

Application Feature Changes

3

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Introduction

This chapter describes changes to the application that were not documented in the user guide or new features guide.

Changes to 1D and 3D LUT Hot Keys

The 1D and 3D LUT hot keys are different from those documented previously.

Press:	To:
Ctrl+Shift+(1-0)	Apply a gamma correction or 1D LUT based on its position in the 1D LUT list.
Ctrl+Shift+' (on the tilde key)	Toggle ID LUT display mode.
Alt+Shift+(1-0)	Apply a 3D LUT based on its position in the 3D LUT list.
Alt+Shift+' (on the tilde key)	Toggle 3D LUT display mode.

Image Data Type Hot Keys

The Bypass button, located in the Image Data Type panel of the View menu, has a hot key assigned to it. Use **Ctrl+Shift+B** to toggle the Bypass button.

The Bypass button in the Image Data Type panel of the Preferences now has an empty hot key entry that can be customized by the user.

Colour Decision List Spark

Using a new Spark[®], you can load and apply files that use the American Society of Cinematographers Color Decision List (ASC CDL) format.

Using SparkCDL, you can load an XML-based file that includes basic colour grading metadata and apply it to a clip.

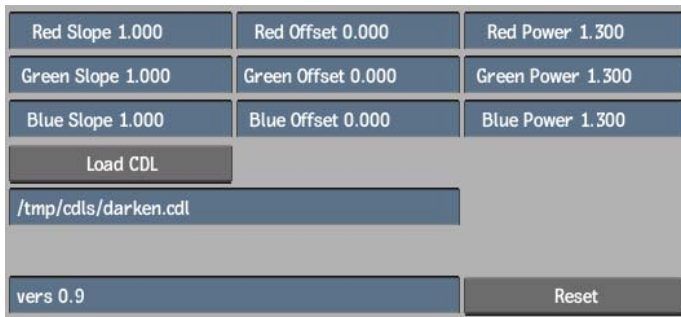
The following is an example of a colour decision list that uses an XML schema:

```

<ColorDecisionList xmlns="urn:ASC:CDL:v1.01">
  <ColorDecision>
    <ColorCorrection>
      <SOPNode>
        <Description>dark blue</Description>
        <Slope>1.0000 1.0000 1.4000</Slope>
        <Offset>0.000 0.0000 0.0000</Offset>
        <Power>1.3 1.3 1.3</Power>
      </SOPNode>
      <SatNode>
        <Saturation>1.000000</Saturation>
      </SatNode>
    </ColorCorrection>
  </ColorDecision>
</ColorDecisionList>

```

For each colour channel, the Sparks menu displays the slope (gain), offset, or power (gamma) values. You can manually adjust or reset these values.



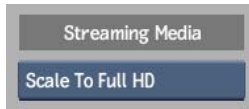
See Using Sparks® as a Plug-in in the Sparks chapter of your application help or user guide.

Adjusting Resolution of DVCPro HD MXF Media

The standard resolution for HD is 1920 x 1080 pixels for 1080p, or 1280 x 720 pixels for 720p. However, some digital cameras that output media to files, may use a different resolution (such as 1280 x 1080 or 1440 x 1080 pixels). This size discrepancy can sometimes lead to problems when conforming. It can often be remedied by applying a Resize operation on the media. However, depending on the media and the offline process, this is not always the solution.

When importing DVCPro HD files by means of MXF, you can now set how best to handle the DVCPro HD media in the Preferences menu.

On the General tab under Streaming Media, use the appropriate option to suit your media and conform workflow.



Use	To
Use Native Resolution	Maintain the original resolution of the media, without making any performance-affecting Resize operations.
Scale to Full HD	Resize the media (of any resolution) to the full HD resolution of 1920 x 1080 pixels. This on-the-fly resize is embedded in the decoding process, and may adversely affect real-time performance.

Improved RED Relink Workflow for XML

When importing FCP XML pointing to DPX media (originating from RED media), your application now uses a heuristic method to determine the correct reel name. This eliminates the need to change the path manually for every file during the Relink process, when using Normal mode.

Exporting QuickTime MPEG-4

When exporting QuickTime® MPEG-4 files, ensure that you export the clip in Progressive mode, rather than Interlaced mode. QuickTime MPEG-4 clips exported in Interlace mode are not supported properly on most QuickTime applications.

Smoke/Flame: Preparing Timelines for Autodesk Lustre

Smoke and Flame optimize timewarps to speed up processing. As a result of the optimization, timewarps appear as multiple shots when the Smoke or

Flame timelines are brought into Autodesk Lustre. Multiple shots can be more difficult to grade in Lustre.

To prevent the optimization you can either:

- Use Autodesk Burn™ to process your timeline, or
- Turn off timewarp optimization for processing

To turn off timewarp optimization for processing, enable the following environment variable before you start Smoke or Flame. Open a terminal and type:

```
setenv DL_DISABLE_NOOP_SOFT_FX_OPTIMISATION
```

After you enable this environment variable, you must process all timelines you want to share with Lustre to remove the optimization.

When timewarp optimization is off, processing time slows down and more space is consumed on your framestore.

NOTE The environment variable is set for the current session only. To set it permanently, open the `~/.cshrc` file in a text editor and add the following on a new line: `setenv DL_DISABLE_NOOP_SOFT_FX_OPTIMISATION`

New Sapphire Sparks from GenArts

If you are using Sapphire® Sparks from GenArts®, please upgrade to the latest version (at least 4.061). See your GenArts representative for information.

