

Autodesk®
Inferno® 2010

A Discreet® Systems product

Autodesk®
Flame® 2010

A Discreet Systems product

Autodesk®
Flint® 2010

A Discreet Systems product

Autodesk®
Flare™ 2010

Release Notes

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Autodesk® Inferno®, Autodesk® Flame®, Autodesk® Flint®, Autodesk® Fire®, Autodesk® Smoke®, Autodesk® Backdraft® Conform software

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Autodesk® Flare™ software

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

Title: Autodesk Inferno, Autodesk Flame, Autodesk Flint, and Autodesk Flare 2010 Release Notes
Document Version: 1
Date: April 20, 2009

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Introduction

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About these Release Notes

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

- Autodesk Inferno®2010
- Autodesk Flame® 2010
- Autodesk Flint® 2010
- Autodesk Flare™ 2010
- Autodesk Burn® 2010

Before upgrading your application, read this document thoroughly, as it contains important notes about the current release, including the required *Discreet Kernel Utilities* (DKU) version and AJA OEM 2K firmware version.

- For important notes about this release, see [Important Notes for the 2010 Release](#) on page 9.
- For the DKU version and AJA OEM 2K firmware version required for this release see [Verifying and Upgrading the DKU](#) on page 5 and [Verifying and Upgrading the AJA OEM 2K Firmware](#) on page 6.
- For a quick overview of the steps required to upgrade your application to the current release, see [Quick Upgrade Workflow](#) on page 3.

- For information on major and minor known issues, as well as issues fixed in this release, see the *Autodesk Visual Effects and Finishing 2010 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
- www.autodesk.com/flare-documentation
- www.autodesk.com/burn-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>.

Release Requirements and Installation

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Topics in this chapter:

- [Quick Upgrade Workflow](#) on page 3
- [System Requirements](#) on page 4
- [Verifying and Upgrading the DKU](#) on page 5
- [Verifying and Upgrading the AJA OEM 2K Firmware](#) on page 6
- [Licensing](#) on page 7
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- [Uninstalling Visual Effects and Finishing Applications](#) on page 7
- [Additional Software For this Release](#) on page 8

Quick Upgrade Workflow

If you are upgrading your application from a previous release, consult the following overview of the main upgrade steps.

NOTE This chapter does not apply to Autodesk Flare. For a list of qualified hardware platforms, minimum hardware requirements, supported operating systems and required driver versions for Autodesk Flare, consult the Autodesk Flare System Requirements Web page at www.autodesk.com/flare_sysrequirements. For Flare installation instructions see the latest *Autodesk Flare Installation and Configuration Guide* available at www.autodesk.com/flare-documentation.

If this is the first time you are installing an Autodesk Visual Effects and Finishing application, we recommend reading the *Autodesk Visual Effects and Finishing Software Installation Guide* for detailed information on each step in the installation procedure.

To upgrade your application to the current release:

- 1 Before beginning the upgrade procedure, read the information in [Important Notes for the 2010 Release](#) on page 9.
- 2 Make sure your workstation and operating system meet the minimum requirements for the current release. See [System Requirements](#) on page 4.
- 3 Open a terminal and log in as root.
- 4 Install the required version of the DKU. See [Verifying and Upgrading the DKU](#) on page 5.
- 5 If your HP workstation is equipped with an AJA OEM 2K board, upgrade the AJA firmware. See [Verifying and Upgrading the AJA OEM 2K Firmware](#) on page 6.
- 6 If you need to change your system date or time, do it **before** installing the new release.
- 7 If you are upgrading from a previous release, make sure there are no missing frames in your previous release clip libraries before performing the upgrade. See [Cleaning up Missing Frames Before Upgrading to the 2010 Release](#) on page 10.
- 8 If you are installing from the Autodesk Visual Effects and Finishing 2010 DVD, insert and mount the DVD.
- 9 If you are installing from a downloaded application *tar* file, unpack the file by typing:

```
tar -zxvf <application_tar_file>
```

The application *tar* file is unpacked into a new directory.
- 10 Go to the application installation directory, for example *Flame_2010_LINUX64_RHEL4*, and start the installation script by typing:

```
./INSTALL <APPLICATION_NAME>
```

The script starts and guides you through the installation process. See the *Autodesk Visual Effects and Finishing Software Installation Guide* for detailed information on each step.
- 11 If you are upgrading from a previous release, run the *copyProjects* utility to copy projects from previous versions of the application to the most recently installed version. See the “Compatibility” topic in the application Help or User Guide for details.

System Requirements

The following table lists the workstations and operating systems supported in this release, as well as the supported BIOS version for each workstation.

Workstation	BIOS Version	Operating System
HP xw8600	1.24	Red Hat® Enterprise Linux® WS 4, Update 3 (64-bit)
HP xw9400	3.05	Red Hat Enterprise Linux WS 4, Update 3 (64-bit)
HP xw8400	2.13 for CPU stepping 6F6 2.26 for CPU stepping 6FB	Red Hat Enterprise Linux WS 4, Update 3 (64-bit)

The following table lists the BIOS version and supported operating system versions for HP ProLiant DL160 Burn Render Nodes.

Render Node	BIOS version	Operating System
HP ProLiant DL160 G5	04/09/2008	Red Hat Enterprise Linux WS4 Update 3 (64-bit) or CentOS 4.6 (64-bit)

If you are upgrading from a previous version of your application, you may need to make some minor changes to video I/O connections, or the BIOS of your workstation. See the latest Hardware Setup Guide for your workstation for details and instructions.

If you are upgrading from a 2007, or newer release of a application, an operating system upgrade is not required.

If you are upgrading from a pre-2007 release of a application, all platforms require a fresh installation of the Red Hat Enterprise Linux WS 4 Update 3 operating system. You cannot upgrade to Red Hat Enterprise Linux WS 4 from a previous version.

Install your operating system from Autodesk's 64-bit custom distribution of Red Hat Enterprise Linux Workstation 4 Update 3. This DVD is distributed with your release shipment, and installs the Linux software packages required by Autodesk applications. These applications do not run under the commercial distribution of Red Hat Enterprise Linux.

WARNING A fresh install of Linux erases the contents of the system disk. Before performing the upgrade, archive user settings, project settings, and any media that you want to preserve.

See the *Autodesk Visual Effects and Finishing Red Hat Enterprise Linux Workstation 4 Update 3 Installation and Configuration Guide* for information on installing Linux.

Verifying and Upgrading the DKU

Before installing the current release, upgrade the DKU to the required version.

Consult the following table to identify the required DKU version for your application release.

Autodesk Inferno, Autodesk Flame, and Autodesk Flint 2010 Version	DKU
2010	4.0.0

To upgrade the DKU:

- 1 Check the currently installed DKU version. As root, open a terminal and type:

```
head -n1 /etc/DKUversion
```

If the DKU version output by the command does not match the version required for the current release, perform the remaining steps in this procedure.

- 2 Insert and mount the application DVD.
- 3 Go to the DKU installation directory, for example *DKU_4.0.0*, and launch the DKU installation script:

```
./INSTALL_DKU
```

WARNING If you attempt to install the DKU on an unsupported platform, the installation script only installs a generic configuration. Such a configuration can render your operating system unusable. Never attempt to install the current version of the DKU on unsupported platforms, including older Visual Effects and Finishing systems that are no longer supported in the current release.

- 4 When the DKU installation completes, reboot the system. Type:

reboot

NOTE After the workstation reboots and until you install the Visual Effects and Finishing application, the Wacom tablet might not behave correctly. Installing the application, then logging out of the KDE desktop and logging back in should eliminate this problem.

Verifying and Upgrading the AJA OEM 2K Firmware

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

Consult the following table to identify the required AJA firmware version for your service pack.

Autodesk Inferno, Autodesk Flame, and Autodesk Flint 2010 Version	AJA OEM 2K Firmware
2010	0x73

To verify and upgrade the AJA PCI-X firmware:

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

If `PCI version` lists a different version than the required one, then perform the following steps to upgrade the firmware.

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

- 2 Go to the `/usr/discreet/DKU/current/Utils/AJA_firmwareUpdate` directory.
- 3 Run the `AJAfw_update` utility to scan the AJA current firmware and, if required, update to the latest firmware version. Type:
./AJAfw_update
If the utility detects that the firmware and drivers need to be updated, it prompts you to start the update.
- 4 Start the firmware update by typing **Y** and then pressing **Enter**.
While the AJA board firmware and drivers are being updated, your workstation appears to be frozen and your mouse and keyboard do not work. This is normal and indicates that the firmware is being updated. Once the firmware update is complete, you are returned to the terminal.
- 5 Shut down your workstation by typing:
shutdown -g0
If your workstation does not prompt you to power down, press the power button for 10 seconds to force a power down.
- 6 Disconnect the power cord.
- 7 Wait 10 seconds, reconnect the power cord, then restart your workstation.

NOTE For more details about the AJA firmware procedures, consult the `README` file located in the current directory.

Licensing

As an eligible subscription customer, you will receive a new license for the 2010 version of your product. See the *Autodesk Visual Effects and Finishing Software Installation Guide* for instructions on installing your license code.

Compatibility

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

To access media in projects created in previous releases, you must first create new projects in the current 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 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.

Uninstalling Visual Effects and Finishing Applications

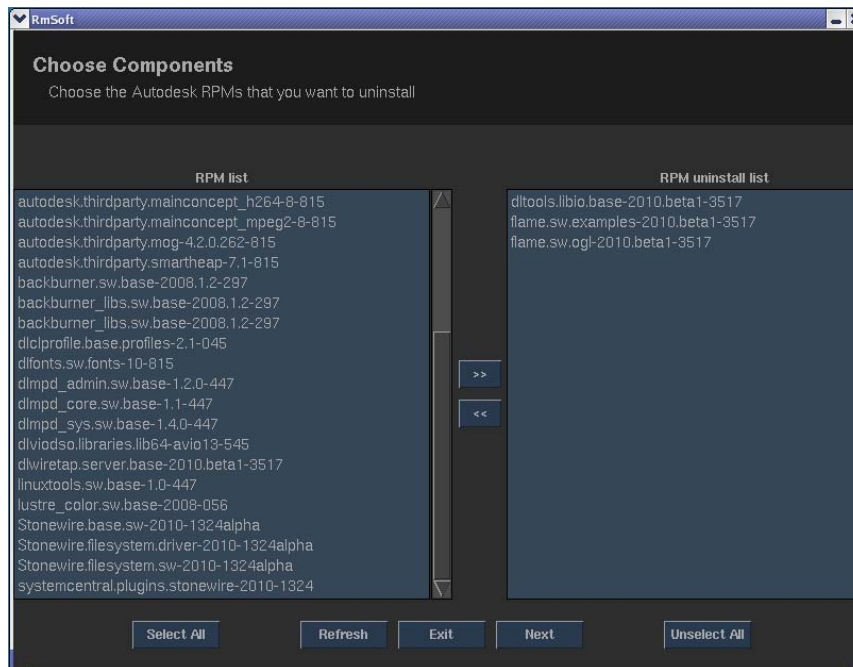
The *rmsoft* utility enables you to easily uninstall Visual Effects and Finishing applications from your workstation.

To uninstall applications using *rmsoft*:

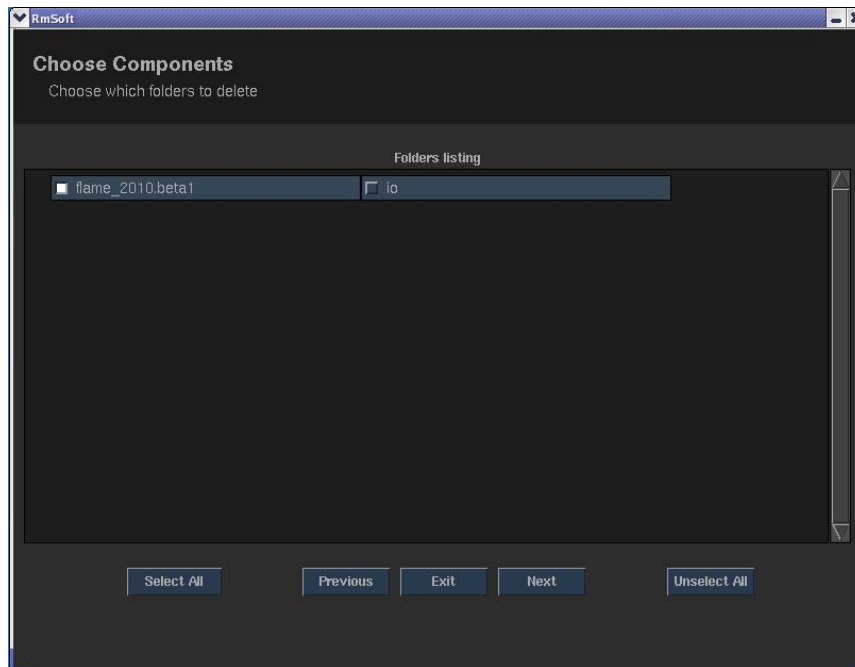
- 1 If you are logged in as the application user in KDE, log out.
- 2 Log in as root, open a terminal, and type:

rmsoft

The *rmsoft* user interface appears.



- 3 In the RPM list, select the RPM packages you want to uninstall and use the arrow buttons to move them to the RPM uninstall list.
- 4 Click Next.
The Choose folders window appears.



- 5 Choose which application directories to delete from the `/usr/discreet` directory, and click Next.
A confirmation dialog appears.
- 6 Click OK to confirm the removal of the selected packages and directories.
The uninstallation starts and *rmsoft* displays details on the process.
- 7 When the operation completes, click Exit to close *rmsoft*.

Additional Software For this Release

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

Software	Version
Autodesk® Backburner™	2008.1.2
Autodesk® Lustre® Color Management	2010
Autodesk® WiretapCentral™	2010
Autodesk® Cleaner® XL	1.5.2

Important Notes for the 2010 Release

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Topics in this chapter:

- [Cleaning up Missing Frames Before Upgrading to the 2010 Release](#) on page 10
- [The 2010 Release Cannot Coexist with Older Releases on the Same Workstation](#) on page 10
- [Updated Packages of WiretapCentral, Wiretap Gateway, and Media I/O Adapter Available for Download](#) on page 10
- [Incorrect Directory and Package Name for Autodesk Flare](#) on page 11
- [Running the Flare Pre-Installation Script from the Application DVD](#) on page 11
- [Disabling Operating System Updates on Flare Workstations](#) on page 12
- [Xpdf Not Available on Flare Workstations](#) on page 12
- [Erratum to the WiretapCentral Installation Guide: Incorrect File Path](#) on page 12
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- [Troubleshooting Missing Frames](#) on page 16
- [Sending MTBF Reports to Autodesk](#) on page 18

Cleaning up Missing Frames Before Upgrading to the 2010 Release

If you are upgrading to the 2010 release on a workstation where a previous release was installed, make sure there are no missing frames in your previous release clip libraries before performing the upgrade.

See [Troubleshooting Missing Frames](#) on page 16 for instructions on how to detect and troubleshoot missing frames.

WARNING Failure to clean up missing frames before installing the 2010 release causes the 2010 application to fill up your entire system drive with log entries on the missing frames from the previous release clip libraries.

The 2010 Release Cannot Coexist with Older Releases on the Same Workstation

The DKU required by the 2010 release installs new drivers that are not compatible with older releases.

If you plan to use 2009 Extension 1 applications on the same workstation as the 2010 release, upgrade your 2009 Extension 1 applications to Service Pack 4 after installing the 2010 release.

Older releases, such as 2009 and 2008 cannot be used on the same workstation as the 2010 release.

NOTE Projects and clip libraries created in these older releases can still be transferred and used in the 2010 release. See the compatibility topic in your application Help for details.

See the *Autodesk Inferno*, *Autodesk Flame*, and *Autodesk Flint 2009 Extension 1 SP 4 Release Notes*, or the *Autodesk Smoke and Autodesk Backdraft Conform 2009 Extension 1 SP4 Release Notes* for information on upgrading your 2009 Extension 1 applications to Service Pack 4.

NOTE You do not need to install DKU 3.5.2 that comes with version 2009 Extension 1 SP4 if you have already upgraded your workstation to DKU 4.0.0.

Updated Packages of WiretapCentral, Wiretap Gateway, and Media I/O Adapter Available for Download

New versions of WiretapCentral, Wiretap Gateway and the Backburner Media I/O Adapter have been released for download since the Autodesk Visual Effects and Finishing 2010 application DVDs were created. These new versions are required to leverage the RED 1.4 SDK and support the RED *PDL*og 685 and *PDL*og 985 color spaces.

To benefit from these improvements, install WiretapCentral 2010.0.1, Wiretap Gateway 2010.0.1 and Media I/O Adapter 2010.0.1 instead of the versions available on the Autodesk Visual Effects and Finishing 2010 application DVD.

The download links for these new versions are available from the 2010 release announcement.

Perform the following procedure to install the new packages.

To download and install the new packages:

- 1 Before proceeding with the installation, it is recommended to consult the *Autodesk WiretapCentral 2010 Installation Guide* for information on each component (including system requirements) and on the various deployment models available.

This information should help you decide if you want to perform a stand-alone installation, or a distributed setup, and on which system to download and install each of the new packages.

- 2 Using the links provided in the 2010 release announcement, download the WiretapCentral 2010.0.1, Wiretap Gateway 2010.0.1, and Media I/O Adapter 2010.0.1 *tar* files into temporary directories on the systems where you plan to install them.
If you are performing a stand-alone installation, download all packages into a temporary directory on your Visual Effects and Finishing workstation.
- 3 On each system where you downloaded the new packages, open a terminal and log in as root.
- 4 Unpack each *tar* file by typing:

```
tar -zxvf <tar_file>
```

A new directory is created from each *tar* file, containing the installation files.
- 5 To install Follow the instructions in the *Autodesk WiretapCentral 2010 Installation Guide*, with the following caveats:
 - If you are performing a stand-alone installation, the older WiretapCentral, Wiretap Gateway and Media I/O Adapter packages from the DVD are automatically installed. Once the main installation finishes, go into the temporary directories of the newly-downloaded packages, and upgrade each of them by typing:

```
./INSTALL
```

WiretapCentral, Wiretap Gateway and the Media I/O Adapter are upgraded to the new version.
 - If you are performing a distributed setup, when the Installation Guide instructs you to install WiretapCentral, Wiretap Gateway and the Media I/O adapter from the *dist* subdirectory on the DVD, install these components from newly-downloaded packages instead. Go into the temporary directory of each component, and install it by typing:

```
./INSTALL
```
 - If you plan to use Burn nodes as Media I/O Adapter nodes, upgrade to Burn 2010, then go into the newly-downloaded Media I/O Adapter directory and upgrade the package by typing:

```
./INSTALL
```

The Media I/O Adapter is upgraded to the new version.
- 6 Follow the other instructions in the *Autodesk WiretapCentral 2010 Installation Guide* to complete and test your setup.

Incorrect Directory and Package Name for Autodesk Flare

Note that even though the name of the Autodesk Flare directory on the product DVD and of the Autodesk Flare *tar* package available for download contains the string **RHEL4**, Red Hat Enterprise Linux 4 does not meet the minimum OS requirements for Autodesk Flare.

The only currently qualified Linux distributions are Red Hat Enterprise Linux Desktop 5.2 with Workstation Option, and CentOS 5.2, as documented on the Autodesk Flare System Requirements Web page at www.autodesk.com/flare_sysrequirements.

Running the Flare Pre-Installation Script from the Application DVD

Due to CD/DVD security restrictions in Red Hat Enterprise Linux 5 and CentOS 5, you might not be able to run the *INSTALL_FIRST* pre-installation script from the application DVD using the command documented on page 8 of the *Autodesk Flare 2010 Installation and Configuration Guide*.

To make sure the script is executed properly from the DVD, start it with the following command:

```
/usr/bin/perl <DVD_mount_point>/Flare2010_LINUX64_RHEL4/INSTALL_FIRST
```

The correct command has been updated in the latest version of the *Autodesk Flare 2010 Installation and Configuration Guide*, available at www.autodesk.com/flare-documentation.

Disabling Operating System Updates on Flare Workstations

Operating system updates on Flare workstations may interfere with the correct functionality of the application. It is therefore strongly recommended to disable automatic updates, and to refuse any package upgrades offered by the operating system.

To disable automatic updates on Red Hat Linux and CentOS:

- 1 Open a terminal and log in as root.
- 2 On Red Hat Linux workstations, turn off the automatic updates services by typing:

```
chkconfig rhnsd off  
chkconfig yum-updatesd off  
/etc/init.d/rhnsd stop  
/etc/init.d/yum-updatesd stop
```

Automatic updates are now off.
- 3 On CentOS workstations, turn off the automatic updates service by typing:

```
chkconfig yum-updatesd off  
/etc/init.d/yum-updatesd stop
```

Automatic updates are now off.

Xpdf Not Available on Flare Workstations

Note that the *Xpdf* PDF reader application is not included in Red Hat Enterprise Linux 5 and CentOS 5. Therefore, when selecting a PDF from the Documentation box in Autodesk Flare, the document opens in one of the available PDF readers (such as *Kpdf*), and not in *Xpdf*, as stated in the Autodesk Flare Workflow Guide, and in the Flare help.

Erratum to the WiretapCentral Installation Guide: Incorrect File Path

An incorrect configuration file path is documented in the *Autodesk WiretapCentral 2010 Installation Guide* distributed on the Autodesk Visual Effects and Finishing 2010 application DVD.

The first bullet in step 11 at the bottom of page 14 in the guide should read:

- As root, open the files `/usr/discreet/wiretap/cfg/wiretapd.cfg`, and `/usr/discreet/wiretapgateway/cfg/wiretapgateway.cfg` in a text editor.

An updated version of the installation guide is available at www.autodesk.com/me-documentation.

Erratum to the Autodesk Flare Installation Guide: Incorrect License File Name

The *Autodesk Flare 2010 Installation and Configuration Guide* available on the Autodesk Visual Effects and Finishing 2010 application DVD documents an incorrect name for the license file used by the Flare License Server.

In the sections “Adding Flare Licenses to the License Server” on page 19 and “Changing the Default Port Used by the License Server” on page 20, all occurrences of *license.dat* should read *DL_license.dat*.

The correct license file path for the License Server is */usr/discreet/licserv/DL_license.dat*.

This issue has been corrected in the latest version of the *Autodesk Flare 2010 Installation and Configuration Guide*, available at www.autodesk.com/flare-documentation.

Irrelevant Error Message When Starting the Flare or Burn License Server

When running the Burn or Flare License Server for the first time, the following error message is displayed in the terminal:

```
license manager: can't initialize: Cannot find license file.  
The license files (or license server system network addresses) attempted are listed below.  
Use LM_LICENSE_FILE to use a different license file, or contact your software provider for  
a license file.  
Filename: /usr/local/flexlm/licenses/license.dat  
License path: /usr/local/flexlm/licenses/license.dat
```

The license file name specified in this error message is incorrect. The correct license file path for the License Server is */usr/discreet/licserv/DL_license.dat*. If you receive this error message after having entered the license in the correct file, ignore the message.

Support for New Timings

It is now possible to input or output material with the following HDCAM SR timings:

- 1080@60p
- 1080@59,94p
- 1080@50p

The new timings do have the following requirements and limitations:

- They are only available on HP 8600 workstations.
- Input and output is done through the AJA video card. The NVidia 5600 SDI card does not support the new timings.
- Audio monitoring is not available during input, nor when at idle, but is available during output.
- The break-out-box must be connected to the VTR with a dual-link connection, as if transferring 4:4:4 material.
- For performance reasons, proxies cannot be generated simultaneously, and will be generated after input.

NOTE When inputting or outputting the new timings, the VTR and the Engineering menu (from the Input Clip and Output Clip menus) show that they are in 4:2:2 mode. This is expected as the material that is captured or output is 4:2:2, even if a dual-link connection is required. The dual-link is used because a single-link does not have the bandwidth necessary to accommodate the new timings.

Changes in the Clip Library Backup Structure

To accommodate the collaborative workflow promoted by Flare, dedicated Flare clip libraries have been introduced in this release. This insures that each Flare workstation has its exclusively owned libraries. These libraries cannot be modified by any other Flare workstation, and by default, cannot be modified by Flame or Inferno.

On disk, the file names of Flare clip libraries use the following naming scheme:

```
<library_name>.flare_<workstation_name>.<version>.clib
```

Note also that clip library backups for each project are now saved to a directory using the following naming scheme:

```
/usr/discreet/clip/<volume_name>/<project_name>_AUTO_BACKUP/
```

Backups of Flare clip libraries contain the prefix *flare_* in the filename, and backups of Inferno, Flame, Smoke or Backdraft Conform libraries contain the prefix *master_* in the filename. For example:

```
/usr/discreet/clip/stonefs/myproject_AUTO_BACKUP/flare_myworkstation.back1.tar
```

```
/usr/discreet/clip/stonefs/myproject_AUTO_BACKUP/master_myworkstation.shared.back1.tar
```

WARNING Do not manipulate the clip library backup files unless instructed to do so by Autodesk Customer Support.

FBX 2009.3 Support

This release now supports FBX® version 2009.3.

New Default Value for the MaxLibrarySize Keyword

The default value of the `MaxLibrarySize` keyword in the `init.cfg` software initialisation configuration file has been changed to 75. See the *Autodesk Visual Effects and Finishing Configuration File Reference Guide* for details on the `MaxLibrarySize` keyword.

New Application Linux Privileges

WARNING Skipping the procedures in this section may result in permission issues later (incorrect access privileges, inaccessible projects, restricted write permissions). To minimize disruption, please read thoroughly.

Visual Effects and Finishing applications now run with the credentials of the user account currently logged in. They no longer run as root, except for some very specific operations or areas, including the project database, integrity checks, volume locks (.ref), and text dictionaries.

This change affects project settings and user profiles, it does not impact media, except for soft-imported media which was previously accessed as root.

Soft-imported media is now accessed using the credentials of the currently logged in user, which might cause access problems. You can solve this issue by using the `chmod 666` command to set read and write permissions

for everyone on the media files you plan to soft-import, or by starting the application from a user account with read and write access to the soft-imported media files.

Perform one of the following operations to update project permissions before starting the application for the first time.

- Open a terminal as root, and run the `/usr/discreet/<application_directory>/bin/copyProjects` script. The script creates a copy of all existing projects, sets project ownership to root, and permissions to 666 (read and write access for everyone). See the Compatibility topic of the application Help for details.
- Open a terminal as root, and run the `/usr/discreet/<application_directory>/bin/changePermissions` script. This script does not change project ownership, but it changes project permissions to 666. See [Running the changePermissions Script](#) on page 15.
- Create new projects, and discard the old ones. The logged in user is set as the owner of the new projects, and project permissions are set to 666. This is the built-in solution, used from now on whenever new projects are created.

The application installation script still creates an application user, just as before. You can run the application from the application user account, or from your personal Linux user account. The logged in user (be it the application user, or your personal user account) is set as the owner of any new projects, and project permissions are set to 666.

Using the application from a personal Linux user account, has the following limitations:

- There are no shortcuts to launch the application on the Desktop. You must create a shortcut yourself, or launch the application from a terminal, using the `/usr/discreet/<application_directory>/bin/startApplication` script. For example `/usr/discreet/flame_2010/bin/startApplication`
- There can be incompatibilities (such as hotkeys misbehaving) between the desktop environment and the Visual Effects and Finishing application, due to your custom window manager preferences.

Running the changePermissions Script

The `changePermissions` script changes the permissions of every project and user profile to 666 (read and write access for everyone).

To run the changePermissions script:

- 1 Open a terminal and log in as root.
- 2 Type the following command:

```
/usr/discreet/<application_directory>/bin/changePermissions -p  
<project_list> -u <user_list>
```

Where `<project_list>` is the list of projects you want to change permissions for, separated by space, and `<user_list>` is the list of user accounts you want to change permissions for, separated by space

If you do not specify a list of projects or users, the script lists the first project it finds, and asks if you want to change permissions for it. Type one of the following answers:

- **y** to change permissions on the current project, and move to the next project found.
- **n** to keep current project permissions, and move to the next project found
- **all** to change permissions on all projects found, and move to the next category (Editing user accounts)

- **go** to keep the current permissions of all projects, and skip to the next category (Editing user accounts)
- **quit** to exit the script without making any permission changes.

After you confirm or deny the changes for all three categories (projects, Editing user accounts, and Effects user accounts), the script changes permissions and exits.

Setting a Custom UID and GID for the Application Linux Account

The application installer now allows you to set a custom UID and GID for the application Linux account created by the installer.

NOTE By default the application Linux account is created under the “users” group.

To install an application and create an application Linux account using a custom GID and UID, run the application installation script with the `--uid` and `--gid` parameters. For example:

```
./INSTALL_SMOKE --uid=1234 --gid=12
```

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 1
```

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 1`

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.

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

- Some clips in your libraries or desktops reference 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:

- 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 *stonefs7*.

NOTE The `-s` parameter of `vic` is only available as of the 2008 SP6 release.

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 remote, see [To recover remote frames](#) on page 17.
- For clips with frames listed as missing, see [To remove unrecoverable frames](#) on page 17.

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.

To remove unrecoverable frames:

- 1 In the terminal, type:

```
vic -v <volume_name> -r
```

Each unrecoverable frame in the clip is replaced with a generic black frame containing the text "LOST".

- 2 Open the Visual Effects and Finishing application.

The names of clips that contained unrecoverable frames are displayed in red in the Clip Library.

- 3 Load each affected clip on the Desktop.
- 4 Scrub through the clip, identify the black frames containing the text “LOST”, and delete them from the clip.

Sending MTBF Reports to Autodesk

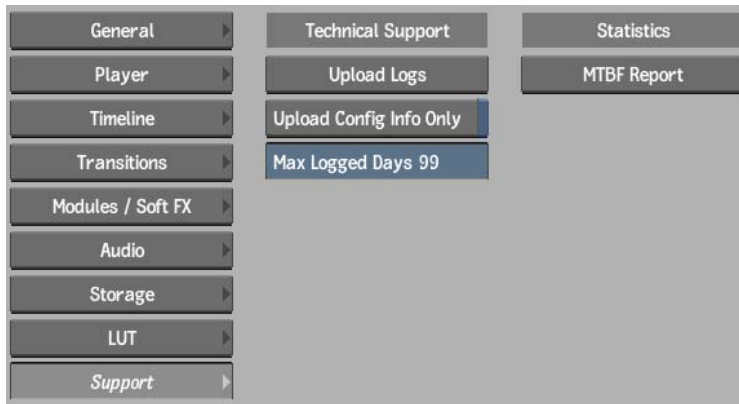
Autodesk may ask users to submit MTBF (Mean Time Between Failures) reports from time to time.

MTBF reports allow Autodesk to evaluate system stability using uptime and crash information about your product. Note that no confidential project information is collected through this report.

You can generate MTBF reports from the UI of the Visual Effects and Finishing applications.

To generate an MTBF report from an application:

- 1 Enter the Preferences menu of your application.
- 2 Select the Support Menu.



- 3 Click the MTBF Report button.

An MTBF report is generated from the application logs, and is automatically uploaded to the Autodesk FTP if the workstation is connected to the Internet.

NOTE If the workstation is not connected to the Internet, the following error message is displayed: “Cannot access the FTP server. Please upload the file `/tmp/<report_file_name>` manually.”, where `<report_file_name>` represents the name of the XML report file. Contact Autodesk Customer Support for information on manually sending the report file to Autodesk.

Application Feature Changes

4

Topics in this chapter:

- [Introduction](#) on page 19
- [Image Data Type Hot Keys](#) on page 19
- [New Sapphire Sparks from GenArts](#) on page 20
- [Colour Decision List Spark](#) on page 20
- [Smoke/Flame: Preparing Timelines for Autodesk Lustre](#) on page 20
- [Batch](#) on page 21

Introduction

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

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.

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.

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.

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 1
```

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

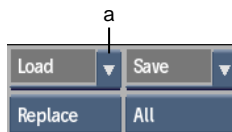
When timewarp optimization is off, processing time slows down and more space is consumed on your framestore.

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 1`

Batch

From the main Batch level, you can either load an existing Batch setup or create a new setup.

Select Load Batch or New Batch from the Load dropdown list. If you select to create a new Batch setup, you must confirm that you want to delete the current setup.



(a) Load dropdown list

When saving clips, you can choose to save only selected clips to the Snapshot library. Select the clips in the schematic, and then click Send Clips To Library in the Batch Setup menu.

