

**Autodesk®**  
**Lustre® 2009**

A Discreet® Systems product

# Release Notes



**Autodesk®**

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# Release Information

## Summary

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## About These Release Notes

The chapters in this document provide a concise collection of important release information about Autodesk® Lustre® 2009, as well as late-breaking changes that occurred after the user guide went to print.

[Chapter 1, “Release Information,”](#) on page 1 - Provides information about related documentation and contacting customer support.

[Chapter 2, “System Information,”](#) on page 5 - Provides infrastructure and hardware-related information.

[Chapter 3, “User Guide Addendum,”](#) on page 9 - Provides new information that was released after the user guide went to print.

[Chapter 4, “Installation Documentation Workflows,”](#) on page 13 - Provides common installation workflows, such as reinstalling from scratch or upgrading your application.

Check the Web site for the most up-to-date version of these *Release Notes*.

## Related Documentation

The following table describes the documentation associated with your application.

<b>User Guides</b>	<b>Provides</b>
<i>Autodesk Lustre 2009 User Guide</i>	Detailed instructions on using the software.
<i>Autodesk Control Surface User Guide</i>	Detailed instructions on using the Autodesk control surface and the Tangent CP100.
<i>Autodesk Lustre 2009 New Features Guide</i>	Information about the new features for this release.
<i>Autodesk Lustre 2009 Hot Keys Card</i>	A list of the most frequently used hot keys.
<i>Autodesk Lustre 2009 Release Notes</i>	A complete list of documentation and information on late-breaking features.
<i>Autodesk Lustre 2009 Fixed and Known Bug List</i>	A complete list of fixed and known bugs for this release.
<b>Installation and Configuration Guides</b>	<b>Provides</b>
<i>Hardware Setup Guide</i> (for your workstation)	Information on how to setup your workstation and video I/O peripherals.
<i>Stone Direct Configuration Guide</i>	Provides detailed connectivity diagrams and configuration procedures for your Autodesk® Stone® storage arrays.
<i>Stone and Wire Filesystem and Networking Guide</i>	Procedures for configuring your Autodesk® Wiretap® services.
<i>Autodesk Lustre 2009 Software Installation Guide</i> (for your operating system)	Information about installing and licensing your Autodesk Lustre software.
<i>Red Hat Enterprise Linux Workstation Installation and Configuration Guide</i>	Information on how to install and configuration the Linux® operating system on your workstation, should you require to do so.
<i>Autodesk Incinerator 2009 Installation and User Guide</i>	Information on installing, licensing, and using Autodesk® Incinerator®.
<b>Other Guides</b>	<b>Provides</b>
<i>Autodesk Lustre Sparks API Reference Guide</i>	Instructions for developing Sparks® plugins for Lustre.
<i>Autodesk Backburner 2008.1 Installation Guide</i> <i>Autodesk Backburner 2008.1 User Guide</i>	Information on how to install, set up, and use Autodesk® Backburner™.

Consult the Autodesk Web site at [www.autodesk.com/lustre-documentation](http://www.autodesk.com/lustre-documentation) for the latest version of guides, release notes, and fixed and known bugs documents.

## Accessing Online Help

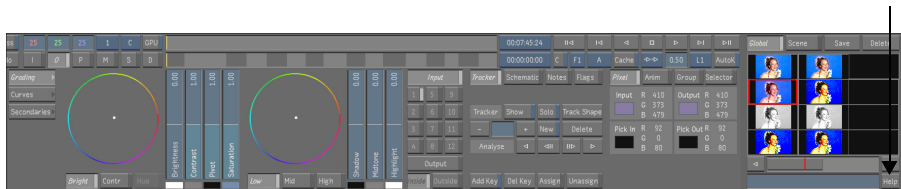
Autodesk provides complete documentation in an accessible HTML help system that is displayed in a Web browser. The Help is automatically installed unless specified otherwise

during the software installation. Refer to the *Autodesk Lustre Software Installation Guide* for this release.

You can install the Help on another system without installing Lustre. For Windows®, select only Online Help when prompted to select components in the Lustre Installer. For Linux®, you can copy the *Documentation/help* directory from the CD onto another workstation.

### To start the help system from Lustre:

- Click the Help button, located in the lower-right corner of all menus, or press **SHIFT+F1**.



### To start the help system from the desktop:

1. If using the Windows version of Lustre, choose Start | Programs | Autodesk | Lustre<version number> | Online Help from the Windows task bar. The Help appears in a browser window.

2. If using the Linux version of Lustre, open a shell and type:

```
<browser> /usr/autodesk/lustre<version number>/help/html/_start_helpsystem.html
```

(where <browser> is either 'mozilla' or 'firefox', as required.)

### To copy the Help to another system:

1. Copy the *Documentation/help* directory from the software CD-ROM to the new location on another system.
2. To start the Help after you copy the help directory, open the *help/html/\_start\_helpsystem.html* file.

## Accessing PDF Documentation

The complete documentation set is available in PDF (Portable Document Format) for online viewing and printing. On Windows systems, use Adobe® Acrobat® Reader™ to view and print the PDF files. On Linux workstations, it is recommended that you use the Xpdf viewer. You can access the PDF files from the Lustre software CD or from [www.autodesk.com/lustre-documentation](http://www.autodesk.com/lustre-documentation).

**NOTE:** If you do not have Acrobat Reader, you can download a free copy from the Adobe Web site ([www.adobe.com](http://www.adobe.com)). If you do not have Xpdf viewer, you can download a free copy from the Xpdf Web site ([www.foolabs.com/xpdf/](http://www.foolabs.com/xpdf/)).

### From the Lustre Application CD

You can view and print the PDF files from the Lustre CD using Adobe Acrobat Reader. All PDF files are located in a directory called *Documentation* at the top level of the CD.

#### To view the PDF files on the application CD:

1. Place the Lustre CD in the CD-ROM drive of your system.
2. If using the Windows version of Lustre, in Windows Explorer, go to the *Documentation* folder on the CD.
3. If using the Linux version of Lustre, open a Linux shell and navigate to the online help directory. Type:

```
cd /usr/autodesk/lustre<version number>/documentation
```

4. To view a PDF file, do one of the following:

- If using the Windows version of Lustre, double-click the desired file.
- If using the Linux version of Lustre, type:

```
xpdf <filename>
```

The file opens in Acrobat Reader or the Xpdf viewer.

## Fixed and Known Bugs

For a list of fixed and known bugs for this release, see the PDF file *lustre2009\_FKBL.pdf*. This PDF file is available on the Web only, at [www.autodesk.com/lustre-documentation](http://www.autodesk.com/lustre-documentation).

## Contacting Customer Support

A list of contact information for Autodesk Media and Entertainment Customer Support is available at [www.autodesk.com/support](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 on the Autodesk web site at [www.autodesk.com/resellers](http://www.autodesk.com/resellers).

# System Information



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## Overview of New and Updated Sections

This chapter highlights important notes and procedures related to installation and hardware configuration.

## Items No Longer Supported as of Lustre 2009

In this release, the following item is no longer supported in Lustre configurations:

- NVIDIA® FX4000 SDI PCI-E graphics card.

## Software Versions and Associated Platforms

This release of Lustre 2009 is available for the Windows® XP SP2 platform and the Red Hat® Enterprise Linux® Workstation 4 Update 3 (for Incinerator and non-Incinerator) platform.

## Release Requirements

Autodesk recommends archiving your media and project data before upgrading the software.

### Hardware System Requirements

The following platform configurations are supported for Lustre 2009.

#### Lustre Master Station - Windows

Computer	Graphics Card	Graphics Driver	VIO
IBM® Z Pro 6223	NVIDIA® Quadro® FX5500 + SDI	165.46	DVS
HP® xw8400	NVIDIA Quadro FX5500 + SDI	165.46	DVS
HP® xw8600	NVIDIA Quadro FX5600 + SDI	165.46	AJA

#### Lustre Master Station - Linux

Computer	Graphics Card	Lustre Media Server	Incinerator Nodes	VIO	Storage
IBM Z Pro 6223	NVIDIA Quadro FX5500 + SDI	eServer X346	eServer X336	DVS	Autodesk Stone Direct IR-series
HP xw8400	NVIDIA Quadro FX5500 + SDI	HP xw9400	Proliant HP DL140 G3	DVS	Autodesk Stone Direct XR-series
HP xw8600	NVIDIA Quadro FX5600 + SDI	HP xw8600	Proliant HP DL160 G5	AJA	Autodesk Stone Direct XR-series

- Graphics driver 165.33
- Discreet® Kernel Utilities 3.5.0

**NOTE:** The cabling for the DVS has changed since Lustre 2008. Refer to your *Lustre Hardware Setup Guide* for information regarding the RS-422 control pinouts for the standard VTR control cable.

## Audio Input and Output

Lustre 2009 introduces new ways to work with audio as well as new audio hardware. A Lucid converter can be used with the new AJA Breakout Box or DVS Centaurus® Breakout Box. For more information about the audio hardware and connection, refer to your *Lustre Hardware Setup Guide*.

## Autodesk Control Surface Panel

The panel folder now contains some control panel files that you can use. To use these files, copy them to the home folder of the application and then rename them to *cp100.rules* or *acs.rules*. Any new user configuration created will use the new panel file as the default.

**cp100\_default.rules** — This is the factory default panel file for the CP-100.

**acs\_default.rules** — This is the factory default panel file for the Autodesk Control Surface (ACS).

**acs\_video.rules** — This file has more sensitive controls for the ACS.

## Configuration Files

In Lustre 2009, the configuration files are very different from previous versions. Please pay close attention to the *init.config* file.

This file is now used to set the system level settings, like the following:

- Wiretap server auto detection
- Wiretap server IP address
- BrowseD configuration
- System level keywords

The following configuration files are now part of the *init.config* file:

- *wt.config*
- *filmtypes.config*
- *browsed.config*

The location of project and user settings has also changed. Their new locations are:

- *C:/Autodesk/Projects* (Windows)
- *C:/Autodesk/Users* (Windows)
- *usr/autodesk/projects* (Linux)
- *usr/autodesk/users* (Linux)

## Upgrade Compatibility

You can use project content, like grades, cuts, presets, and so on, created in Lustre 2008/2007 in Lustre 2009, but you should always copy the material from the previous release to a new project of Lustre 2009.

For instructions on carrying forward project data for Lustre on a Linux workstation, see [“Lustre on a Linux Workstation”](#) on page 9.

## Wiretap Interoperability

Lustre 2009 is read/write compatible with Wiretap 2008, 2009, and 2009 Extension 1. Lustre 2009 can only read and write media to a project that is the same version as the Wiretap server.

The following is a table of Lustre 2009 read and write capabilities if Wiretap server 2009 Extension 1 is running.

Lustre 2009 read / write capability	Version of Visual Effects and Finishing project
Read and write	Visual Effects and Finishing 2009 Extension 1 projects
Read only	Visual Effects and Finishing 2007/2008/2009 projects

## SDP over Infiniband Support

To be able to have a high speed IB connection, you need to install the latest Windows IB driver on the Lustre workstation and the latest Linux IB driver on the Visual Effects and Finishing workstation. You will need the following:

- Lustre 2008 Service Pack 2 or higher
- Autodesk® Smoke® or Autodesk® Flame® 2008 Service Pack 4 or higher (with DKU version 3.5.0)

**NOTE:** For details on how to acquire the correct drivers, firmware, and utilities and how to upgrade your switch firmware, contact your local Autodesk support office. See [“Contacting Customer Support”](#) on page 4.

Lustre 2009 supports a socket direct protocol (SDP) over IB connection in addition to the continued support of the IP over IB connection. The performance advantage of the SDP over IB solution is the ability to transfer up to 2K 10-bit source footage in real-time over Wiretap.

For SDP over IB support, the Visual Effects and Finishing application your Lustre workstation connects to must be either Smoke or Flame 2008 Service Pack 4 or 2009 with the latest DKU (the latest DKU has the new IB driver). For full details about Smoke or Flame requirements, see the Release Notes for Smoke or Flame 2008 Service Pack 4 or higher.

**NOTE:** If using an SDP over IB connection and you choose to manually configure specific Wiretap servers in the *init.config* file, make sure you input the Gigabit Ethernet IP addresses of the Wiretap host machines and not the Infiniband IP addresses.

# User Guide Addendum



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## Overview

This chapter contains a collection of late additions to the *Lustre 2009 User Guide*.

## Features No Longer Used in Lustre

The DDR Chase feature is no longer available on systems with DVS, and the automatic pulldown detection feature is no longer available on systems with DVS.

## Limitations for Lustre 2009

The Timeline Sort mode and Collapse view are not available when you are working in Stereoscopy mode.

## Lustre on a Linux Workstation

When you are installing the Lustre 2009 software on Linux, a Lustre user is created. Since project data was created as Root in previous Lustre releases, you have to change the file permission for all your project folders in order to use them with Lustre 2009.

**To use your previous project data with Lustre 2009:**

1. Log in as root.
2. Install Lustre 2009.
3. Log in as Lustre user (you will see a Lustre 2009 icon on the login page)

**NOTE:** A password is not needed to log in.

4. Start Lustre by clicking the Lustre icon or by typing Lustre in a shell.
5. Navigate to your project folders.
6. As root, type in the shell:

```
chmod 777 *
```

The project files and folders can now be read/written using Lustre 2009. Repeat steps 5 and 6 for your scans and render folders.

## Telecine-mode Playout

The Telecine-mode playout is now available on both the DVS and AJA systems. You can only create a Telecine tape in Assemble mode (Insert and Record mode are not available). You can perform a Telecine-mode Playout from the Print view (P) or the Output view (O) if you enable the Playout From Timeline option. In Lustre 2009 you will not use the LTC Out from the DVS to feed the timecode to the VTR; instead you will use the RS-422.

**NOTE:** Since it is not possible to playout, with the Telecine-mode, shots with retime effects, you need to use the timeline sort mode feature before performing the playout. This will output the graded source media without the retime effect.

**To perform a Telecine-mode Playout:**

1. Set the VTR Timecode Generator to Internal / Preset.
2. Do one of the following:
  - If you are using a Digital Betacam, set the VTR menu Regen Mode (610) to Manual.
  - If you are using an HDCam or HD-D5, the Regen mode is set to Automatic by default. You do not need to change anything.
3. Grade your timeline.
4. Use the Editing > Assemble > Timeline Sort Mode tool to sort your timeline in C-mode (with or without heads and tails).

5. If you intend to use the Print view for playout, render the media, but if you intend to use the Output view, enable the Playout From Timeline.

**NOTE:** You can also use the RealTime Deliverables view (D).

6. In the Editing > Playout menu, enable Telecine-mode.
7. Set the duration of the Black media that is added before each shot (default is five seconds).
8. Set the Start Timecode.
9. Press Assemble.

## Wiretap Workflow

The following are the updates to the Wiretap workflow.

### Timewarp from Smoke or Flame

There is an optimization of the timewarp processing in Smoke and Flame that causes problems with Lustre. When processing a timewarp speed that does repeat the same media (e.g., 0%, 50%, etc.) the same media is repeated. This makes the timewarp processing faster, but shows the timewarped shots as single frame edit result in Lustre. To disable the timewarp processing option, type the following environment variable before launching Smoke or Flame:

```
setenv DL_DISABLE_NOOP_SOFT_FX_OPTIMISATION
```

The default state of the variable is OFF, meaning that by default the optimization is enabled in Smoke and Flame, and Lustre will be given a single-frame edit for any timewarp shot. If there is a problem when you are loading a timeline in Lustre, you need to exit Smoke or Flame, set the environment variable as shown above, and process in Smoke or Flame. Next, reload the timeline in Lustre.

**NOTE:** This is only available with Smoke and Flame 2009 Extension 1.

### Publish

When working with Smoke or Flame over Wiretap, it is possible to use published content. If you intend to generate local proxies for Wiretap content, make sure the Publish operation in Smoke or Flame is performed with the following options:

- Select the Flatten Publish option.
- Set the Type option to Media+EDL.
- Set the Output Format to DPX.
- Set the File Naming option to Use Clip Timecode.

- Set the Head/Tail option.
- Select the Create Sub Directories option.
- Set the Destination path to a shared storage (e.g., NAS or SAN).
- Enable the Link option if the source media is located on the same destination file system.

This will avoid duplication of media.

Once all the options have been set, click Publish.

File Naming is a new option in Smoke and Flame 2009 Extension 1. It allows you to define how the file name of the published media is created.

- <timeline name>\_<shot name>\_<frame>.dpx (use clip name)
- <source timecode>.dpx (use clip timecode)
- <timeline name>\_<shot name>\_<source timecode>.dpx (use both)

Since Lustre uses the filename to generate the local proxy, you have to select the Use Clip Timecode option. With this option, the proxy media will always be referenced by Lustre even if the structure of the timeline changes. The Use Clip Name option changes the shot name based on the timeline position of the shot (e.g., shot1, shot2, etc.)

# Installation Documentation Workflows

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## Overview

Your Autodesk Lustre 2009 system is shipped preconfigured with the appropriate operating system and application already installed. In normal situations, the final configuration procedures are simple and well documented.

This chapter highlights four common installation workflows that you may need to perform, and lists the documentation relevant to each. You should always identify and gather the relevant documentation before proceeding with any installation workflow.

## Reinstalling from Scratch

Follow this workflow when you need to completely rebuild your Lustre system: from cross-connecting the hardware peripherals and storage arrays, to installing the operating system, and installing, licensing, and configuring your application.

### To reinstall your system from scratch:

1. Prepare for the installation.  
Consult the *Autodesk Lustre 2009 Release Notes* (web version) for the latest requirements and late-breaking information.
2. Connect the hardware peripherals to the workstation.  
Consult the *Autodesk Lustre 2009 Hardware Setup Guide* for your workstation.

3. Connect your storage.  
Consult the *Autodesk Stone Direct Configuration Guide* for your release.
4. Install the operating system.  
For Windows workstations, consult the *Autodesk Lustre 2009 Software Installation Guide for Windows Workstations*.  
  
For Linux workstations, consult the *Autodesk Lustre 2009 Software Installation Guide for Linux Workstations* or *Autodesk Incinerator 2009 Installation and User Guide*.
5. Configure the RAID volumes and mount the storage.  
Consult the *Autodesk Stone Direct Configuration Guide* for your release.
6. Install and license Lustre.  
Consult the *Autodesk Lustre 2009 Software Installation Guide for Windows Workstations* for Windows workstations.  
  
For Linux workstations, consult the *Autodesk Lustre 2009 Software Installation Guide for Linux Workstations* or *Autodesk Incinerator 2009 Installation and User Guide*.
7. Get going.  
Read the *Autodesk Lustre 2009 User Guide* and *Autodesk Lustre 2009 New Features Guide* to get familiar with Lustre's powerful features.

## Connecting New or Expanded Stone Direct Storage

Follow this workflow when you need to rebuild your Autodesk workstation's Stone Direct storage array. For instance, this may be required when you purchase supplementary storage enclosures to expand available disk space.

### To connect new or expanded Stone Direct storage:

1. Prepare for the installation.  
Consult the *Autodesk Lustre 2009 Release Notes* (web version) for the latest requirements and late-breaking information.
2. Connect your storage.  
Consult the *Autodesk Stone Direct Configuration Guide* for your release.
3. Configure the RAID volumes and mount the storage.  
Consult the *Autodesk Stone Direct Configuration Guide* for your release.
4. Configure your filesystem.  
Consult the *Autodesk Lustre 2009 Software Installation Guide* for your operating system.

5. Begin working with Lustre.

Read the *Autodesk Lustre 2009 User Guide* and *Autodesk Lustre 2009 New Features Guide* to get familiar with your application's powerful features.

## Upgrading Lustre

Follow this workflow in cases where you need to install or upgrade your application. Typically, you do not have to reformat the filesystem or upgrade the operating system when you upgrade the application.

### To upgrade your application:

1. Prepare for the installation.

Consult the *Autodesk Lustre 2009 Release Notes* (web version) for the latest requirements and late-breaking information.

2. Install and license your application.

Consult the *Autodesk Lustre 2009 Software Installation Guide* for your operating system.

3. Begin working with Lustre.

Read the *Autodesk Lustre 2009 User Guide* and *Autodesk Lustre 2009 New Features Guide* to get familiar with your application's powerful features.

## Documentation FAQs

Here are a few examples of common installation enquiries, and the documentation that provides the answers to each.

### How Do I Request a License for Lustre?

Consult the *Autodesk Lustre 2009 Software Installation Guide* for your operating system for installation procedures and information on obtaining and installing the licenses required to launch your application.

### How Do I Learn About the Latest Updates?

Consult the *Autodesk Lustre 2009 Release Notes* (web version). They contain the most current information about requirements and procedures.

### How Do I Find Out About All the New Features for This Release?

Read the *Autodesk Lustre 2009 New Features Guide* for an overview of new features. For complete new feature information, consult the *Autodesk Lustre 2009 User Guide*.

