



# Graphics Hardware Certification

## Linux<sup>®</sup> Platform

Last updated: October 1<sup>st</sup> 2010.

### Readme First

The information contained in the [Readme First](#) document applies to all hardware Certifications executed on the Autodesk Media and Entertainment 2011 software product releases and should be acknowledged by all users prior to consulting the Certification charts.

### What's New

This certification was done on Autodesk Mudbox 2011 Subscription Advantage Pack while still supporting the original 2011 versions.

Certification on Nvidia<sup>®</sup>'s new FERMI<sup>®</sup> cards is almost complete.

AMD<sup>®</sup> FirePro<sup>®</sup> Vxxxx is also complete.

Note that missing card's results should come in the upcoming weeks to fill up the charts.

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## Linux Certification Kernels

The following table lists the Linux Certified kernels for the Mudbox 2011, Subscription Advantage Pack software product release.

Table Legend

✓	Certified.
👉	Certified with caveats. Refer to the Kernel Caveats & Limitations.
🕒	Certification planned OR in progress. Results coming shortly.
👉	Supported although not officially Certified in our lab.
👉	Hardware component falls below minimum system requirements to run this product.
✗	Certification failed due to serious problems.
○	No Certification planned OR not applicable.
—	Not yet tested.

Linux Certification Kernels for Autodesk Mudbox 2011 Subscription Advantage Pack for Linux		
	Red Hat® Enterprise Linux®	Fedora®
	5.5 – 64-bit OS	11 – 64-bit OS
Kernel Version		
✓	2.6.18-194.17.1.el5	2.6.30.10-105.2.23.fc11.x86_64
Xorg Version		
✓	7.1-2	X server 1.6.4-0.1
Glibc Version		
✓	2.5-49.el5_4.3	2.10.2-1.x86_64

## **Kernel Caveats & Limitations**

Fedora 11 ships with the "nouveau" driver enabled by default. Having this driver loaded prevents the NVIDIA driver from loading. Please consult your distribution's documentation on how to disable the nouveau driver before installing the NVIDIA driver.

## Graphics Cards

The following table provides the graphics card and driver version hardware certifications for the Autodesk Mudbox 2011 Subscription Advantage Pack for Linux software product release.

**Important:** Although Autodesk tested some NVIDIA GeForce® and ATI™ Radeon™ consumer graphics cards, it is Autodesk, NVIDIA, and AMD policy to only recommend and support the professional NVIDIA Quadro, ATI FirePro, and ATI FireGL graphics family cards. See the NVIDIA Quadro vs. GeForce GPUs White Paper [\[PDF\]](#).

























If you have any questions, please contact:

NVIDIA: [NVIDIAAutodeskhelp@nvidia.com](mailto:NVIDIAAutodeskhelp@nvidia.com)

AMD/ATI: <http://emailcustomercare.amd.com>

Table Legend

✓	Certified
👉	Certified with caveats. Refer to the Graphics Cards Caveats & Limitations
🕒	Certification planned OR in progress. Results coming shortly
👍	Supported although not officially Certified in our lab
🔧	Hardware component falls below minimum system requirements to run this product
✗	Certification failed due to serious problems
●	No Certification planned OR not applicable
☑	Testing is completed.
👁	Testing is completed. Some issues found. Refer to the Graphics Cards Caveats & Limitations.
△	Testing is ongoing OR planned.
⊖	No testing is planned.
☒	Hardware component falls below minimum system requirements to run the Autodesk product.
—	Not yet tested.

Graphics Card & Driver Certifications for Autodesk Mudbox 2011 Subscription Advantage Pack for Linux			
Graphics Card	Driver	Red Hat® Enterprise Linux®	Fedora®
Product	Version	5.5 – 64-bit OS	11 – 64-bit OS
NVIDIA®		<a href="#">256.53</a>	<a href="#">256.53</a>
Quadro® 6000			
Quadro 5000	256.53	✓	✓
Quadro 4000	256.53	✓	✓
Quadro® FX 5800	256.53	✓	✓
Quadro FX 4800	256.53		
Quadro FX 3800	256.53		
Quadro FX 1800	256.53	✓	✓
Quadro FX 4700 X2	256.53		
Quadro FX 3700	256.53		
Quadro FX 1700	256.53		
Quadro FX 5600	256.53		
Quadro FX 4600	256.53		
Quadro FX 5500	256.53	⊘	⊘
Quadro FX 4500 X2	256.53	⊘	⊘
Quadro FX 4500	256.53	⊘	⊘
Quadro FX 580	256.53		
Quadro FX 380	256.53		
GeForce GTX 295	—	⊘	⊘
GeForce GTX 285	—	⊘	⊘
GeForce GTS 250	—	⊘	⊘
GeForce 9800 GT	—	⊘	⊘
GeForce 8800 GTS	—	⊘	⊘
GeForce 8800 GT	—	⊘	⊘
GeForce 9600 GT	—	⊘	⊘
GeForce 8600 GT	—	⊘	⊘
AMD			
FirePro™ V8800	8.743.3.3		
FirePro V7800	8.743.3.3		

Graphics Card & Driver Certifications for Autodesk Mudbox 2011 Subscription Advantage Pack for Linux			
Graphics Card	Driver	Red Hat® Enterprise Linux®	Fedora®
Product	Version	5.5 – 64-bit OS	11 – 64-bit OS
FirePro V5800	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FirePro V4800	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FirePro V3800	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FirePro V8750	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FirePro V8700	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FirePro V7750	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FirePro V7700	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FirePro V5700	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FirePro V3750	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FirePro V3700	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FireGL™ V7700	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FireGL V8650	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FireGL V8600	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FireGL V7600	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FireGL V5600	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
FireGL V3600	8.743.3.3	<a href="#">🔗</a>	<a href="#">🔗</a>
Radeon HD 4870 X2	—	⊗	⊗
Radeon HD 4870	—	⊗	⊗
Radeon HD 3870	—	⊗	⊗
Radeon HD 3850	—	⊗	⊗
Radeon HD 4650	—	⊗	⊗
Radeon HD 3650	—	⊗	⊗
Radeon HD 3470	—	⊗	⊗
Radeon HD 2600 XT	—	⊗	⊗
Radeon HD 2600 Pro	—	⊗	⊗
Radeon HD 2400 Pro	—	⊗	⊗

## Graphics Cards Caveats & Limitations

There are currently no NVIDIA graphics card caveats / limitations to report for the current release of this Autodesk product.

The following table provides a description of professional AMD graphics cards caveats and limitations.

AMD Graphics Cards Caveats & Limitations					
Mudbox 2011 Subscription Advantage Pack for Linux					
Graphics Card	Driver	OS	Caveat / Limitation	Status	Workaround
All AMD cards	8.743.3 .3	Red Hat 5.5 Fedora 11	Mudbox 2011 does NOT support AMD cards	Issue reported to vendor and development team.	—

## Operating System Dependent & Miscellaneous Issues

Fedora 11 ships with the "nouveau" driver enabled by default. Having this driver loaded prevents the NVIDIA driver from loading. Please consult your distribution's documentation on how to disable the nouveau driver before installing the NVIDIA driver

## Notes on Operating Systems

The following sections describe important notes related to the Linux operating systems for the Mudbox 2011 Subscription Advantage Pack for Linux software product.

### Compiler Requirements

Mudbox 2011 was compiled using gcc 4.1.2, on a RHEL 5 system. gcc 4.1.2 source code is available from <http://gcc.gnu.org/gcc-4.0/>.

The options to build the gcc 4.1.2. compiler used for Mudbox are:

```
gcc412 -v
```

```
Target: x86_64-redhat-linux
```

```
Configured with: ../configure --prefix=/usr --mandir=/usr/share/man --  
infodir=/usr/share/info --enable-shared --enable-threads=posix --enable-  
checking=release --with-system-zlib --enable-__cxa_atexit --disable-libunwind-  
exceptions --enable-languages=c,c++,objc,obj-c++,java,fortran,ada --enable-java-  
awt=gtk --disable-dssi --enable-plugin --with-java-home=/usr/lib/jvm/java-1.5.0-  
gcj-1.5.0.0/jre --enable-libgcj-multifile --enable-java-maintainer-mode --with-ecj-  
jar=/usr/share/java/eclipse-ecj.jar --with-cpu=generic --host=x86_64-redhat-linux  
Thread model: posix gcc version 4.1.2 20070925 (Red Hat 4.1.2-33)
```

The plug-in developers should use the same configuration.



## Operating Systems

The Linux operating system is extremely flexible with regards to precise versioning of different components, drivers and libraries. Mudbox may behave very differently on superficially similar systems and while Autodesk will do our best to help solve problems that are probably due to operating system configuration issues, we may be unable to explain or determine the cause of a problem.

Internally at Autodesk we have stabilized on the following configurations. We provide this list for the purpose of aiding our customers, but we can make no guarantees to the reliability, stability or availability of these components. This is not a complete list of Linux configurations choices. This list includes important components that significantly affect the Mudbox software.

We do not recommend saving data directly from Mudbox to NFS or other remote mounted file systems. We strongly recommend that you save the files locally and then copy the data to the mounted storage system.

Mudbox is not linked to be compatible with SELinux. If SELinux does not need to be enabled, don't enable it. The SELinux requirement may be addressed via two mechanisms after Mudbox has been installed.

If you do not wish to use SELinux enforcement, you can disable it by running the ``setenforce 0`` command before starting X, or by adding `selinux=0` to the end of the kernel line in `/etc/grub.conf` or change `/etc/selinux/config` and reboot.

b. It may be possible to change the security context of the Mudbox libraries, with the `chcon` command. This has not been tested.

KDE klipper is known to have focusing issues with some applications, which may contribute to the application instability. If you encounter this issue, we recommend removing the applet from the panel and editing the config file, `(~/.kde/share/config/klipperrcv)`, to disable KDE klipper.

```
[$Version]
```

```
update_info=klipperrc.upd:25082001,klipperrc.upd:kde3.1 ral]
```

```
AutoStart=false
```

The following table provides a description of caveats / limitations that are still being investigated. Autodesk has not identified the precise combination of factors involved. Please refer to the *Release Notes* for further details on known issues with the Mudbox software product.

Operating System Caveats & Limitations		
Autodesk Mudbox 2011 Subscription Advantage Pack for Linux		
Operating System	Caveat / Limitation	Workaround

## OpenGL Visuals

The Mudbox choice of OpenGL visuals is RGBA 8/8/8/8 double buffer with depth buffer of 24 where applicable. Visuals available from the XServer can be found using the command `glxinfo`.

If Mudbox cannot obtain its preferred visual, it will fall back as possible to lower values. A warning will be issued in this case.

Set up the XServer so it is using direct rendering to get as many visuals as possible. Use a depth setting of 24, to enable 8 bits per component.

## Window Manager

Certification tests listed in this document have been performed under Gnome 2.16.0 for Red Hat 5.5 and Gnome 2.26.3 on Fedora Core 11. Other window managers are likely to work just fine although they have not been tested and therefore they cannot be listed as "Certified".

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