



Clipstream

Playerless video and audio streaming

Clipstream™ Video 2.2 Technical Guide - Section 1 Release Notes

Disclaimer: All content presented herein is subject to change without notice and is deemed as accurate as possible at time of publication. Please consult with Clipstream™ Video Support at <http://clipstream.com/help/> for clarification if you encounter any erroneous or inconsistent material in this document.

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Clipstream Video 2.2 Release Notes

Destiny Media Technologies, Inc. is pleased to announce the release of version 2.2 of our world class Clipstream Video Toolkit. This version update of the Toolkit represents the consolidation of incremental changes to the Toolkit since June of 2002. The list below outlines specific changes to the various components including the Encoder Codec as reflected in the DOS encoder, the Windows GUI that acts as a user-friendly interface to the DOS encoder, and the Clipstream Video Applet.

Release Details

Version: 2.2
Build: 2.2.21106
Date: November 6, 2002

Effected Files

Clipstream Video Applet

videoclipstream.zip
videoclipstreamlite.zip
videoclipstream.cab
videoclipstreamlite.cab
DSLoader.class

Clipstream Video DOS Encoder

VCSEncoder.exe

Clipstream Video DOS Encoder GUI

VCSEncoderFE.exe (installed as VCSEncoderInstaller.exe)

Fixes, Enhancements, New Parameters

Clipstream Video Applet

videoclipstream.zip

Size: 46 KB

Description: Fully featured version of the Clipstream Video Player Applet

Fixes

1. Netscape 6/7 response
2. Java 1.3+ random access
3. Java 1.4
4. Random access in a password protected environment

Enhancements

1. AuthorizedDomainURL is enabled if the directory `_scs_` is in the codebase path. This implements codebase piracy protection for video clips not encoded using a SID.
2. VideoURL now supports a still image as a stream (for slow modem users)

3. VideoTitleImageURL parameter now accepts "null" to display a black frame and accepts #RRGGBB for a RGB coloured frame.
4. AutoPlay parameter now takes load only value to start streaming in pause mode. The whole clip will preload and wait in pause mode.

Sample:

http://www.videoclipstream.com/akamai/m/men_in_black/loadonly.html

New Parameters

1. VideoPlaybackNumber, limits number of playbacks during the current browser window session. Expressed as an integer.
2. VideoURLEx specifies the location of the title image for a stream
3. VideoBackground specifies an image for the applet background
4. VideoBackground# specifies an image for the applet background for each videoURL#
5. useCaches allows disabling browser cache

Clipstream Video Lite Applet

videoclipstreamlite.zip

Size: 35 KB

Description: Function limited version of the applet in a smaller package

Sample:

http://videoclipstream.com/akamai/testclips/binding/lite_applet.html

Feature and Parameters not supported in the lite applet are as follows:

PanelXXX
SeekXXX
VideoHyperlinkTarget
AuthorizedDomainURL
VideoHyperlinkXX (one link only using VideoHyperlink with no number)
VideoHyperlinkSize
VideoEdgeColor
VideoEdgeWidth
Secured clips

Clipstream Video CAB Applet

videoclipstream.cab

Size: 37 KB

Description: A full-featured smaller applet file for IE/AOL only

Clipstream Video Lite CAB Applet

videoclipstreamlite.cab

Size: 28 KB

Description: Function limited version of the applet in a smaller package for IE/AOL only

Feature and Parameters not supported in the lite cab applet are as follows:

PanelXXX
SeekXXX
VideoHyperlinkTarget
AuthorizedDomainURL
VideoHyperlinkXX (one link only using VideoHyperlink with no number)
VideoHyperlinkSize
VideoEdgeColor
VideoEdgeWidth
Secured clips

DsLoader Minimum Load Applet

DSLoader.class

Size: 5kb

Description: Loads the bare minimum componentry in an ultra small package. Rest of applet is downloaded when play is initiated. Note that overall applet size is greater in this scenario, but the initial download is smaller. This satisfies many banner placement requirements.

Sample:

http://www.videoclipstream.com/akamai/b/Bell/bmw_light.html

Clipstream Video DOS Encoder

VCSEncoder.exe

Size: 308kb

Description: Stand alone DOS encoder that encodes files into the VCS format.

Improvements

1. Smaller logo in encoded files during buffering
2. New algorithm for smoother frame dropping
3. New quality histogram during encoding, better text output

New Encoding Parameters

Export Frame

Description: Extract frames from the source timeline
[{ms},{*.jpg}[, {ms},{*.jpg}]

Usage: **-p**{time},{filename},{time},filename} Export a picture.

Time: ms of the source file. The first frame after cropping is taken if the selected time is before the cropping, it is skipped if it's beyond the cropping.

Filename: filename of the output jpeg file.
e.g. -p5000,5thSec.jpg,21000,21stSec.jpg

Motion Estimation

Description: achieve higher frame rates without adjusting quality

Usage: **-gm**{#}

=1,2,... (default to 1, max 15)

Gamma

Description: Use one entry only to affect all three similarly

Usage: -ggR,G,B R/G/B= 0.0~10.0 (1.0 is default)

Example: -gg2

Contrast

Description: Use one entry only to affect all three similarly

Usage: -gcR,G,B R/G/B= 0.0~10.0 (1.0 is default)

Example: -gc3

Brightness

Description: Use one entry only to affect all three similarly

Usage: -gbR,G,B R/G/B = -10.0~10.0 (0.0 is default)

Example: -gg-2

Volume

Description: Adjusts the volume of the encoded video.

Usage: -l{Level}

Level = 0~1600

100: no change

50: half

200: double

If audio volume is 0 or audio bitrate is 0, the audio track is disabled.

Example: -l150 = 1.5 x volume

De-Interlace

Description: introduces de-interlacing to the encoding process.

Usage: -gi{Mode} Mode=0,1,2,3

0/1: use odd/even lines to duplicate

2/3: use odd/even lines to interpolate

Clipstream Video DOS Encoder GUI

VCSEncoderFE.exe

Size: 1,117kb

Description: Windows user interface for the VCSEncoder.exe application. This installation package includes the latest compatible applet (videoclipstream.zip) and the latest version of the VCSEncoder.exe application.

Fixes and Enhancements

1. New logos for encoder and installer
2. Ability to enter decimal numbers in frame rate field
3. New input area on advanced pop-up for new or extra parameters (will be added to command line when executing)
4. Installs to new hard drive and start menu folders matching other Destiny installs.