

VOD SEGMENTER: PREMISES™

A Linux® based, production grade, easy to use file to multiple file transcoder designed to efficiently create all the most used video and audio file formats needed in typical content contribution or distribution work environments. The x264 encoding engine is universally acknowledged to be the highest quality software engine in existence. The DVEO VOD SEGMENTER offers a sophisticated manual control but is easily interfaced to workflow management tools via REST or SOAP.



Features

- Designed to repackage or chunk files to HLS. This is called segmentation.
- Inputs: Files of any type via drag and drop
- Encodes files faster than real time – about one-fifth the playing time of the video file
- Encodes all profiles simultaneously
- Supports logo insertion, text overlay, and SCTE 35 compliant cue tone insertion ("ad markers") on outputs
- Able to upconvert incoming SD streams to HD, and scale down
- Tested with leading CDNs (Verizon® and Akamai®)
- Supports H.264 High Profile @ Level 4.0 (HP@L4)
- Supports 1080i, 1080p, 720p, 576i, 480i, 480p, CIF, QCIF, qHD, H.264up and many others, and custom resolutions
- x64 library based for highest quality
- Ingest, file format, conversion, and content production can be a hands-off process thanks to built-in scheduling
- Tested to work with Atlas™ media servers
- Tested compatible with major brands of IP devices including Amino™, Roku®, Telergy, Android™, and Apple devices
- SNMP, REST, SOAP support for remote management and monitoring
- Qualys® certified to Level 2 for Critical Vulnerabilities like Open Ports, Tracking applications with COBIT, FISMA, HIPAA, NERC, PCI DSS, SANS, SCAP compliance
- Scalable from single servers to multiple servers

Overview

Live transcoding is essential to video streaming and is a well-understood piece of live content distribution. File to file transcoding is essential to non real time work flows where content is created.

Thanks to the wide acceptance of Netflix, VOD is now expected in all IP and cable oriented infrastructures.

Fortunately for DVEO, file to file transcoding is best implemented on the same type of hardware as live transcoding. What we have done here is applied DVEO's deep experience with live encoding to file to file encoding.

File to file transcoding is needed to automatically prepare an available file format to file formats needed by broadcast servers, edit systems, web, and mobile devices. There is no time or resources to manually re-encode content to multiple formats.

Applications

- Prepare content for VOD (Video on Demand) on multiple devices

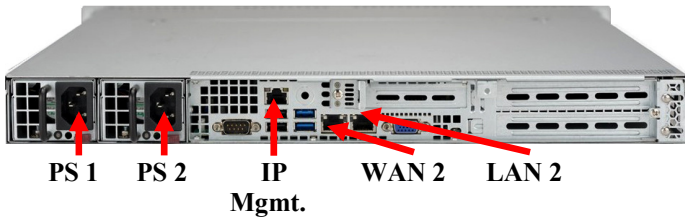


Computer Modules, Inc.
11409 West Bernardo Court
San Diego, CA 92127

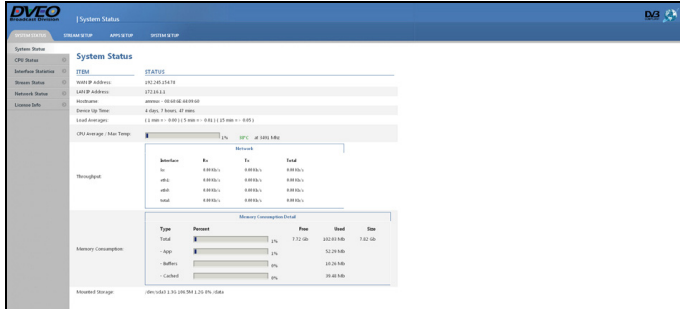
Tel: 858-613-1818 Fax: 858-613-1815

www.dveo.com

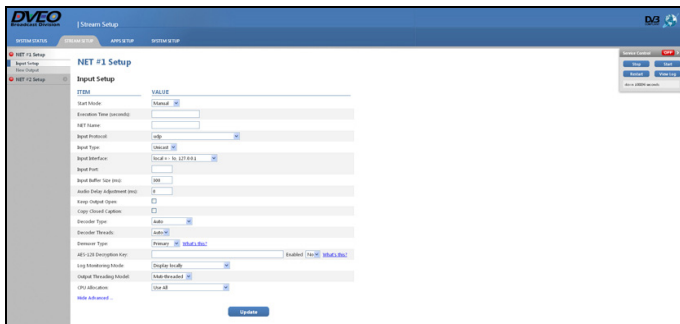
Inputs/Outputs



Sample of GUIs



Status Screen



IP Input Setup

Options

- Optional file encoding to H.265
- DVEO "EZ CARE" – Extended Warranty with Priority Tech Support

Ordering Information

VOD SEGMENTER: PREMISES
 Tech Support – One year support and updates, included
 Option 1: H.265 Transcoding
 Option 2: DVEO "EZ CARE"

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Specifications

Some Supported Resolutions – Input and Output

1920 x 1080	720 x 480	480 x 480	qHD
1280 x 720	704 x 480	480 x 320	H.264up
720 x 576	640 x 480	320 x 240	

Also supports any custom resolution not listed here, including computer formats like 1280 x 1024, etc. Note: Lower resolution results in higher transcodes. Supports PAL TO NTSC conversion but not NTSC to PAL. Supports closed captioning. H.265 output resolutions supported are 1080, 720, 576, 480. H.265 576/480 resolutions only have 4:3 aspect ratio.

Inputs

Inputs:	Files of any type via drag and drop
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Outputs

Outputs:	HLS manifest with HLS segments
Audio Output:	AAC
Output “wrapper”:	HTTP Live (HLS)
Bit Rates:	Multiple H.264 video streams at different bit rates (.1 to 15 mbps)
Quality:	8 bit encoding with 4:2:0 color sampling
Video:	H.264

Administration

Access:	Web interface, SSH (Secure command line interface)
SNMP:	Monitoring and alerts
Scheduling:	On, Off support for timeslots
Remote:	REST, SOAP

CPU and Operating System

CPU:	Single 16 Core Xeon®
OS:	DVEO embedded Linux® on SSD
Hard Drive:	.5 TB SSD Default

Physical & Power

Size (W x D x H):	17.2 x 25.6 x 1.7 inches (437 x 650 x 43 mm)
Power Supply:	500W redundant power supplies with PMBus
Voltage:	100-240Vac, 50-60 Hz, 6.1-2.6A, 500 watts
Operating Temperature:	10° to 35° C (50° to 95°F)
Non-operating Temperature:	-40° to 60° C (-40° to 140° F)
Operating Humidity:	8% to 90% (non-condensing)
Non-operating Humidity:	5% to 95% (non-condensing)
Fans:	5 Counter-rotation 40x56 mm PWM fans
Weight:	24 lbs (10.89 kg)
Conformities:	UL, SP, CE, RoHS, UL, CSA, CE, RoHS

Security

Ports security scanned to MIL requirements prior to shipment
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Ad Insertion

SCTE Ad Marker insertion via RS232, USB, IP, Contact closures



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