MEDIA SCALE

VECIMA

MediaScale Transcode with TruLive™

Software-Defined Transcode – Any Format In, Any Format Out

MediaScale Transcode with TruLive™ is a 100% software-based solution that takes advantage of the latest advancements in encoding technology to provide unsurpassed video quality on COTS hardware.

- Simple to configure and scale, MediaScale Transcode with TruLive allows service providers, broadcasters, and content owners to deliver video over any network and to any device at resolutions from QCIF to 4K.
- Combined with Vecima's MediaScale TruLive Origin and TruLive Cache CDN solutions, MediaScale Transcode with TruLive provides an end-to-end video distribution solution, including video processing, storage, and delivery.

Software-Defined Transcoding

Vecima's software-based transcoding solution is hardware-agnostic, runs on a virtual machine or in a container, and enables on-premise, cloud (public or private), and hybrid-cloud deployments.

File and Live Workflows

MediaScale Transcode with TruLive supports multiple deployment configurations, including:

- Live video
- VOD/File
- SD, HD, and 4K content
- Adaptive bitrate (ABR) and SPTS

Multiple Simultaneous Outputs

- Output a mix of streams at multiple resolutions and frame rates simultaneously.
- Address multiple target devices efficiently, simplify workflows, and maximize processing throughput.

Advanced Video Processing

VQX (video quality experience) allows operators to select and adjust the level of video processing on a per-channel basis, enabling maximum video quality as a function of CPU utilization and network bandwidth.

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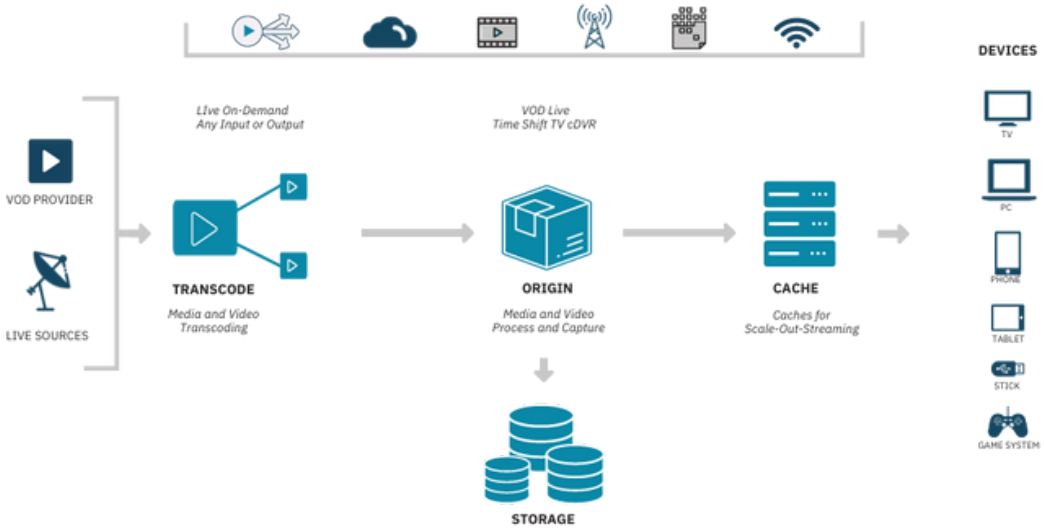

Specifications

File Processing	
File Formats	.ts, .mpg, .avi, .mp4, .mov, .mxf, fragmented MP4
Video Formats	
	MPEG-1, MPEG-2, H.264, HEVC, XDCAM50, ProRes
Video Resolution	
	QCIF (176x144) up to 4K (3840x2160) SDR/HDR
Frame Rates	
	Progressive 59.94, 50, 29.97, 25, 23.97 Interlaced 29.97, 25, 23.97
Video Bitrates	
	Up to 50 Mb/s in VBR, CBR, or capped VBR
Video Processing	
	Configurable GOP, 3:2 pull-down/inverse telecine, frame rate conversion, logo insertion, watermarking, file concatenation
Audio Formats and Processing	
	MPEG-1 Layer II, AAC, AC3
Subtitle and Teletex	
	EIA 608 and 708 closed-captioning pass-through and embedding from file, convert to DMXF, burn-in from TTML
Digital Program Insertion	
	SCTE 35 pass-through, SCTE 35 insertion via SCTE 104 triggers
Management	
	GUI, API, SNMP

Live Processing	
Live Formats	UDP/RTP (multicast and unicast), MPEG-2 TS
Video Codecs	
	MPEG-2, H.264 4:2:0 (8-bit), H.264 4:2:2 (10/12-bit), HEVC HD4:2:0 (8-bit), HEVC 4K
Video Resolution	
	QCIF (176x144) up to 4K (3840x2160) SDR/HDR
Frame Rates	
	Progressive 59.94, 50, 29.97, 25, 23.97 Interlaced 29.97, 25, 23.97
Video Bitrates	
	Up to 50 Mb/s in VBR, CBR, or capped VBR
Video Processing	
	Configurable GOP, 3:2 pull-down/inverse telecine, frame rate conversion, logo insertion, watermarking
Audio Formats and Processing	
	MPEG-1 Layer II, AAC, AC3, CALM (ATSC A/85), EBU R128
Subtitle and Teletex	
	SCTE 27, closed-captioned
Digital Program Insertion	
	SCTE 35 pass-through, SCTE 35 insertion via SCTE 104 triggers, POIS integration (ESAM)
Management	
	GUI, SNMP

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