Tachyon^{TM} Live! – *Transformation in Transit^{TM}*

Real-Time Standards Conversion for IP Distribution

Meet Tachyon Live! For years, Tachyon has been the gold standard for file-based media transformation. Now, Cinnafilm's award-winning tools for frame rate conversion, deinterlacing and resolution adjustment are now available for live workflows.

Frame rate conversion is a critical requirement for international distribution of live video signals. The quality of these conversions is paramount, particularly for coverage of high-profile international sporting events. Until recently, high quality live frame rate conversion could only be done with dedicated hardware connected to specialized video transmission infrastructure.)

Tachyon Live is a disruptive technology that enables high-quality frame rate conversions (and other transformations (such as resolution, color space etc.) to take place in entirely virtualized environments. Tachyon Live handles a variety of IP video transmission protocols and will operate on public cloud, or private infrastructure.

Scheduled for general release in Q3, 2023, Tachyon Live will initially be available as an option in cloudSwXtch, the revolutionary virtual networking technology from SwXtch.io, combining world-class media transformation with enterprise-grade cloud networking.

Specifications

Video conversions:

- Frame Rate – covert any frame rates between 23.98 and 60 fps
- Resolution – SD to UHD / 4K
- Interlacing: Interlaced to Progressive, Progressive to Interlaced
- Color space: 601/709/2020; transfer functions: 601/709/2020 PQ, HLG
- User Specified LUT conversions.

Transport Protocols:

- SRT, NDI, SMPTE 2110

Compute requirements:

- CPU - 16+ CPU cores (depending on workflow)
- Nvidia GPU, Pascal series or newer
- Windows or Linux

Interfaces:

- REST & JSON RPC configuration and monitoring APIs

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