Tachyon[™] Live! – *Transformation in Transit[™]*

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 API's

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Meet cloudSwXtch

Extending Your Broadcast Network To The Cloud

Features

High Performance Cloud Networking for Media

swXtch.io



Multicast & Broadcast

Using multicast instead of unicast **optimizes** network configurations and **reduces** cloud distribution and egress costs.

Ground to Cloud

Cloud applications can **dynamically select** on-prem video sources via IGMP requests.

Precision Time Protocol

Connect cloudSwXtch to a Master PTP clock and watch it **synchronize** cloud workloads.

SMPTE 2022-7

Protect your data with redundant network paths.



Protocol Fanout

Send copies of a single input stream in any supported protocol (multicast, unicast, or SRT) to multiple destinations.



uncompressed.

Get SMPTE 2110 support without the need of additional on-ramp/off ramp appliances and **treat** all content the same whether it is compressed or

Monitoring

One of the main issues preventing migration to the cloud is lack of packet visibility. With cloudSwXtch, kiss those concerns goodbye.

wXcked Eye provides broadcasters the monitoring tools necessary to gain insights into data flows.

To Learn More

- Visit our website at <u>swXtch.io</u>
- Visit our documentation at docs.swXtch.io
- Contact Louise Moggio from Strategic Sales at <u>louise.moggio@swXtch.io</u>

Available on AWS and Azure Marketplaces

Coming soon to Google and Oracle clouds

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cloudSwXtch's monitoring tool wXcked Eye