InSync Inside - FrameFormer with TVU MediaMesh®

Premium Motion-Compensated Frame Rate Conversion For Broadcasters And Content Distributors

Premium Frame Rate and De-interlacing Conversion at Scale in the Cloud

TVU Networks and InSync Technology have joined forces to enable seamless global live production across broadcast, sports, and news. The integration of InSync's FrameFormer with TVU MediaMesh™ delivers best-in-class, motion-compensated frame rate conversion and flexible cloud deployment—ensuring flawless content delivery in any format, frame rate, or destination.

Designed for broadcasters and service providers distributing premium live events worldwide, the solution provides high-quality international content transfer for fast-motion productions such as the FIFA World Cup, Olympics, Super Bowl, NBA, Wimbledon, and Tour de France.

Solution Overview:

FrameFormer delivers best-in-class software standards conversion, preserving image integrity across formats, frame rates, and scan modes. Its CPU-only design ensures maximum cost efficiency, simple deployment, and seamless optimization for virtualized and cloud environments.

Advanced features like de-interlacing and SDR/HDR tools simplify common video processing tasks—such as integrating traditional SDR interlaced formats into modern HDR progressive workflows.
Powered by InSync's proprietary algorithms refined over two decades,

FrameFormer achieves exceptional output quality with low latency—just one second versus competitors' four to six. Its CPU-based efficiency reduces operating costs without compromising conversion quality.

How it works:

InSync's FrameFormer technology is integrated with TVU's MediaMesh, a scalable and universal IP video routing solution as an optional feature to enable the highest quality frame rate conversion for customers routing local sources to international destinations, bi-directionally, or, when operating in a different video format and/or frame rate.

Customers can access the InSync service through TVU MediaMesh™ on a pay-as-you-go or monthly subscription basis—offering high-quality frame rate conversion with the flexibility to use it only when needed.

Benefits:

- Cost-efficient
- Motion-compensated conversion for premium live quality
- Easy deployment
- Advanced video processing with de-interlacing and up/down/cross conversion
- Seamless workflow integration
- SDR/HDR (HLG, PQ, S-Log3) and WCG (BT.601/709/2020) support
- Optimized for on-premises or cloud workflows

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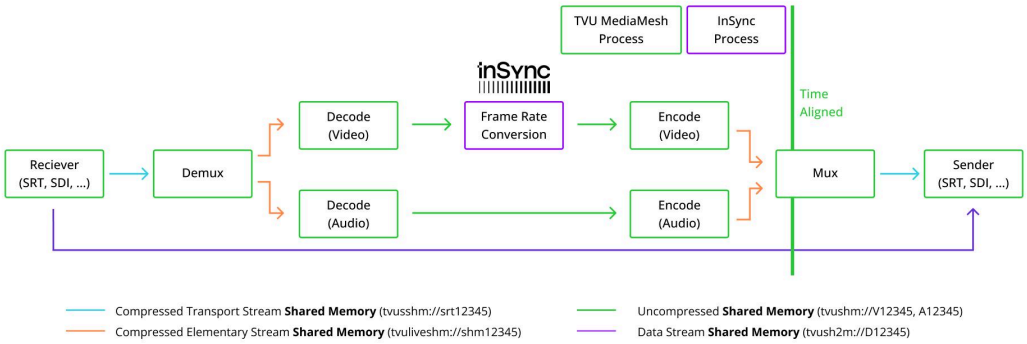
From Any Location to Every Destination — Seamlessly

With TVU MediaMesh™, routing any combination of audio, video, or metadata is effortless—integrating on-premises assets with the agility of the cloud. This unified workflow maximizes asset utilization and quality while MediaMesh automation handles encoding, scaling, and decoding in real time for seamless end-to-end delivery.

TVU's intuitive drag-and-drop routing and broad codec support pair perfectly with InSync's FrameFormer, simplifying standards conversion—just set your output format and go.

Together, TVU MediaMesh and InSync FrameFormer create a powerful, cloud-native solution for global live production. Broadcasters gain best-in-class frame rate and format conversion with the flexibility of pay-as-you-go or subscription access—ensuring flawless, cost-efficient content delivery across any format, frame rate, or destination.

TVU MediaMesh High Level Integration



Solution Use Cases:

High-quality international content transfer for major global sports, entertainment, and live events—especially those with fast-moving, complex action.

Facilitating the seamless integration of interlaced (1080i) and progressive (1080p) sources to support live production and distribution workflows.

Joint Solution Highlights:

Premium Conversion Quality: Best-in-class frame rate conversion with unmatched image preservation.

Cloud-Native Efficiency: CPU-only, cost-effective, and seamlessly integrated into TVU MediaMesh.

Flexible Access: Pay-as-you-go or subscription, used only when needed for global live events.