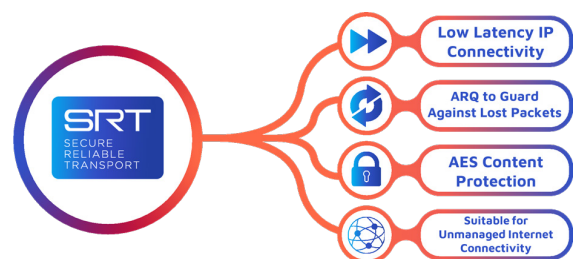## Introduction

The evolution of live video workflows has reached a pivotal juncture, where IP networks have become the cornerstone for seamless content sharing. This paradigm shift emphasizes the significance of content delivery simplicity, reliability, and cost-effective connectivity. Traditionally, achieving high reliability and data rates necessitated expensive managed fiber connections, often costing thousands of dollars per month.

> *Vislink SRT-centric solutions deliver enhanced user experiences, lucrative revenue streams, and seamless end-to-end content delivery.*

However, recent advancements in high-data-rate internet connectivity and dependable streaming protocols have revolutionized the video connectivity landscape. With the proliferation of high-rate internet access points and reduced connection costs, content producers and owners can tap into new revenue streams, offering audiences a more diverse and enriching viewing experience. This transformation has played a pivotal role in the meteoric rise of over-the-top (OTT) streaming services, boasting a user base exceeding 1.1 billion.

The Emergence of SRT

In response to these dynamics, the open-source Secure Reliable Transport (SRT) streaming protocol has emerged as a game-changing toolset, living up to its name by providing secure, reliable, and low-latency data transport. SRT achieves unmatched connection reliability through a synergy of Forward Error Correction (FEC) and packet retransmission, enabling robust transmissions and rapid data recovery in the face of loss.

SRT
SECURE
RELIABLE
TRANSPORT

- Low Latency IP Connectivity
- ARQ to Guard Against Lost Packets
- AES Content Protection
- Suitable for Unmanaged Internet Connectivity

The protocol's focus on content security is paramount, with the option to enable 128 or 256-bit AES encryption to safeguard against unauthorized access. With low-latency transmission capabilities and rapid error recovery mechanisms, SRT empowers high-efficiency data transmission across unmanaged internet connections, setting the stage for high-quality, low-latency video services.

SRT in Action: Versatility Across Platforms

SRT has garnered widespread adoption across multiple applications. It shines in live event broadcasting, remote productions, contribution between broadcast sites, and distribution across multiple locations. Thanks to SRT's versatile configuration options, network nodes can be designated as callers or senders, enabling streamlined operations by facilitating connectivity initiation from either end of the network.
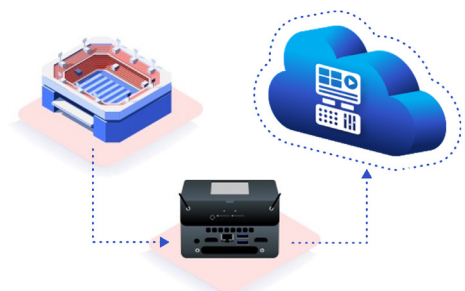
Vislink's Innovative SRT Solutions

Vislink has seamlessly integrated SRT into its product portfolio, delivering operational advantages across diverse applications. From free-roaming camera systems to direct contribution from live events and network distribution solutions, Vislink leverages SRT's capabilities to optimize workflows.

For example, SRT empowers production teams to seamlessly integrate wireless camera systems into remote production setups. By leveraging SRT connectivity, Vislink enables separation of RF receive infrastructure for the free-roaming cameras from video decoding at the broadcast center. This innovation not only optimizes event production efficiency by reducing on-site personnel but also leverages cost-effective IP connectivity to the max.

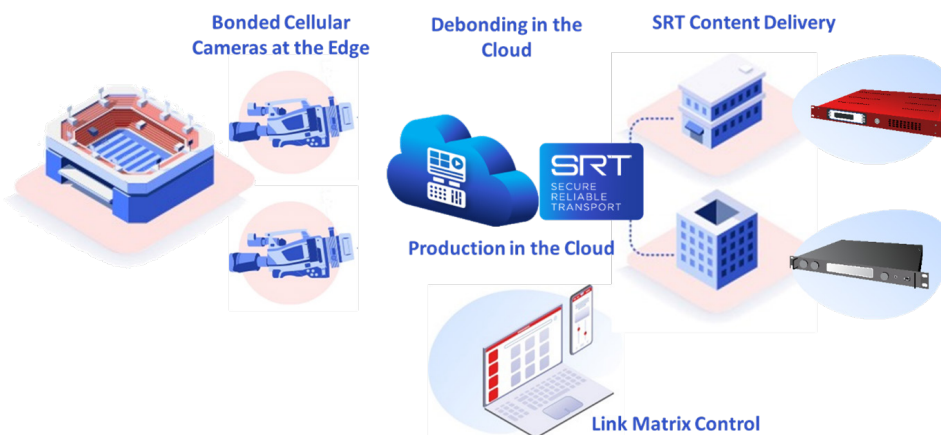### Cost-Effective Live Event Streaming

For contribution of video services directly from an event, Vislink's MVP Terralink Mini encoders can be an ideal solution for content owners to stream their content to consumer platforms. With the cost profile of the IP network significantly reduced by utilizing SRT over the public internet, and by utilizing an SRT encoder that has a lower price point than classic hardware-based contribution encoders, the possibilities for new types of content becoming commercially viable are vastly expanded.

Vislink MVP TerraLink Mini encoder

Global Reach Made Simple

Vislink's MVP LinkSwitch extends SRT's reach, enabling the creation of distribution networks spanning the globe. With the ability to generate SRT streams from any MVP source unit, including bonded cellular devices in the field, establishing secure and reliable distribution networks to multiple takers across the globe as an interoperable stream becomes straightforward and economical.

Bonded Cellular Cameras at the Edge

Debonding in the Cloud

SRT Content Delivery

SRT SECURE RELIABLE TRANSPORT

Production in the Cloud

Link Matrix Control

Total Control and Real-time Monitoring

Harnessing the global network of the public internet, Vislink leverages SRT to not only enable global connectivity but also to facilitate real-time monitoring and control of video content nodes. The LinkMatrix control platform simplifies SRT connections through a user-friendly graphical interface, enabling immediate or scheduled connections. With LinkMatrix offering comprehensive monitoring statistics, SRT users gain direct insight into network health, putting connectivity control at their fingertips. This integration eliminates the need for costly managed network operations, fostering the growth of new revenue-generating services.

Conclusion: The Future is Here with SRT and Vislink

As we navigate the transformative waters of high-speed internet and dependable streaming protocols, Vislink's robust SRT-based solutions are ideal for providing broadcasters unprecedented flexibility and affordability. The future of content delivery is not just about surviving; it's about thriving in a landscape filled with endless opportunities. Vislink and SRT are not just responding to the industry's evolving needs—they are shaping its future, providing the tools necessary for exceptional user experiences, lucrative revenue streams, and seamless end-to-end content delivery.

Additional information about Vislink products can be found at www.vislink.com.