Seamless Integration for Secure Transport, Protection and Monitoring

TECHEX'S POWERFUL SOFTWARE EDGE GATEWAY LEVERAGES ZIXI SDVP INTEGRATION

HIGHLIGHTS

TECHEX EDGE PLATFORM WITH NATIVE ZIXI INTEGRATION

tx edge is a software gateway designed to provide secure transport, protection and monitoring for broadcast content between facilities, to and from the Cloud, as well as between other software transformation processes.

AT A GLANCE:

- High availability
- Exceptionally Secure
- Extensive and flexible array of redundancy options to protect systems and content
- Exceptionally rich monitoring at every level
- Wide range of supported ingest and egress protocols including Zixi
- Fully orchestrated solution

Customers demand a highly dependable, secure, and seamlessly coordinated solution for transporting their most valuable content, all while safeguarding their critical network infrastructure and data. In a dynamic market where customer expectations are constantly shifting, content providers seek solutions that not only ensure reliable and top-quality video delivery but also optimize costs and operational efficiencies. Through its partnership with Zixi, Techex bridges the gap between the demands of traditional broadcast and the flexibility of cloud-native infrastructure. Techex, as the creator of tx edge, a premium transport gateway and trust boundary solution, has engineered a product designed to surpass the requirements of the largest media and telecommunications organizations worldwide. tx edge offers extensive support for various ARQ protocol options, including seamless integration with the acclaimed Zixi protocol, making it an integral part of the global Zixi Enabled Network.

WORLD CLASS EDGE SOLUTIONS FOR BROADCASTERS OF TOMORROW

tx edge stands as an 'assured' transport gateway solution, meticulously crafted in-house by Techex's dedicated R&D team to surpass the expectations of the most discerning clients, including major broadcasters and telecommunications companies. It boasts a comprehensive array of protocol options for both content ingestion and egress, complemented by a myriad of possibilities for traffic manipulation within the IP domain. Engineered with security as a paramount concern, tx edge establishes crucial SMPTE 'trust boundary' isolation between networks, while also safeguarding against traffic over-rates through advanced traffic policing mechanisms. Content security is ensured through AES and/or BISS2 Mode-1 encryption, with meticulous monitoring of every facet of the content delivery process across IP, MPEG transport stream and baseband domains.

STATE OF ART EDGE ENGINEERING MEETS ITS CLOUD COMPANION

Techex's collaboration with Zixi enables top-notch monitoring and delivery of content with ultra-low latency across any IP network, even unmanaged Internet connections, making it indispensable for critical applications like Esports, live news coverage, and high-profile entertainment events.

The tx edge solution provides robust protection and monitoring for broadcast content transmission between facilities, to and from the Cloud, and between various software transformation processes, offering unparalleled flexibility. Leveraging the Zixi protocol ensures dependable and error-free live content delivery over any IP network, with the added advantage of up to 50% packet loss recovery.

Utilizing Zixi for reliable contribution over the Internet enables content providers to seamlessly transfer content to the cloud or transmit it back to a central location for production purposes.

SECURE CONTRIBUTION THROUGHUT THE ENTIRE WORKFLOW UTILIZING ZIXI

Techex's integration of Zixi allows content creators and distributors to leverage Zixi's industry leading video over IP technology proven with over 15+ years of experience and trusted by over 1400+ media customers in 100+ countries to deliver and contribute video to and from global markets via the cloud, and take advantage of unique features such as:

- **Network Efficiency**
  Reduces egress costs up to 30% - 50% when compared to other protocols

- **Connection Validation**
  Industry leading security including DTLS connection security and content encryption

- **Sequenced Hitless Failover**
  An improvement on SMPTE 2022-7, applies Zixi optimized alignment algorithms to re-create a single coherent uninterrupted stream out of multiple stream fragments

- **Reliability**
  Enhanced stream resilience with congestion aware routing and patented dynamic forward error correction (FEC)

- **Quality Optimized Delivery:** Quality optimized delivery with content aware bandwidth shaping

ABOUT TECHEX

Trusted by premier global broadcast and media customers with their most valuable live workflows, Techex transports, protects and transforms live video over IP and in the cloud. Its expertise ensures the safe and secure delivery of high value content, where precision, scalability and flexibility are paramount. Using its extensive broadcast experience, Techex supports organisations in transitioning to IP and the cloud.

Techex develops its own award-winning software and partners with market-leading technology companies developing an ecosystem of best-in-class solutions and services which can handle the most challenging scenarios.

In a market where customer expectations continually evolve, content providers require solutions that deliver reliable and high-quality video whilst optimising cost and operational efficiencies. Techex bridges the gap between the rigours of traditional broadcast and the agility of cloud native infrastructure.

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ABOUT ZIXI

Zixi provides the cloud based and on-premises Software-Defined Video Platform (SDVP®) that enables reliable broadcast-quality video delivery over any IP network, any protocol, any cloud provider and any edge device. The company offers technologies for broadcasters, enterprises, over-the-top video providers, sports leagues, service providers, cable operators and Telcos around the world, giving them the lowest TCO in the industry. Many of Zixi's clients are delivering and managing thousands of streams, and there is no other alternative in the market that can provide 99.999%+ reliability at scale. Zixi simplifies building and managing congestion-aware live video routes on any network, with support for 18-protocols across any operating environment, with products that are purpose built to provide market leading performance, universal interoperability and an operational control plane that simplifies management and orchestration at scale. With 15+ years of innovation and expertise, the Zixi Enabled Network has grown to over 1000+ media customers and 400+ OEM and service providers that deliver 20,000+ channels daily, with 110,000+ deployed instances in over 120 countries, gathering over 9 billion data points a day while delivering over 100,000 live sporting events a year. This powerful ecosystem of the largest media organizations in the world exchanging live video allows for the creation and acceleration of new content acquisition, business models, and opportunities to reduce cost and generate revenue. www.zixi.com | sales@zixi.com