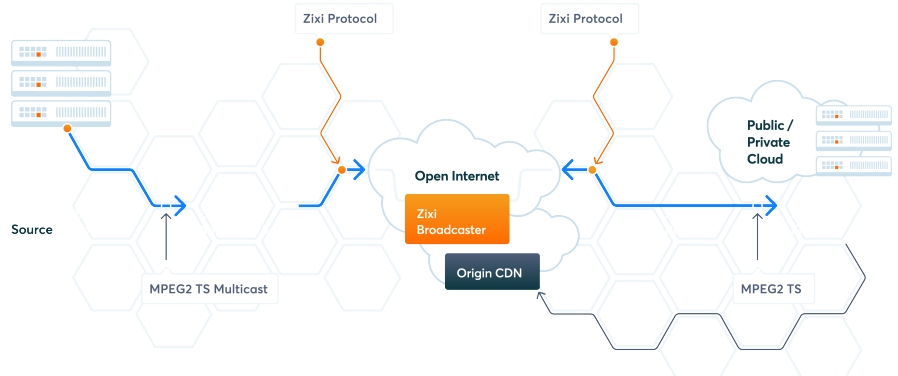


SECURE AND RELIABLE VIDEO TRANSPORT WITH ZIXI NOW
AVAILABLE ON BITMOVIN API BASED PRODUCTS



ZIXI LIVE CONTRIBUTION FOR BITMOVIN SOLUTIONS

KEY ZIXI BENEFITS

- **Centralized Management** – ZEN Master provides a centralized view of the entire Zixi enabled contribution and distribution network
- **Security** – Zixi provides best-in-class security enhanced with DTLS and AES standards-based protection
- **Reliability** – Contribute source streams with 99.999+% broadcast reliability with hitless failover provides redundant transmission options for higher reliability and disaster recovery
- **Low Latency** – With network adaptive forward error correction and recovery, proven sub 1 second live linear latency
- **Interoperability** – Zixi is compatible with the largest ecosystem of encoding devices and contribution sources

ZIXI TRANSPORT

Bitmovin customers benefit from Zixi's well-proven methods of optimizing IP-networks for contributing live video content in real-time.

Zixi transport provides best-in-class resiliency using a combination of content-aware and network adaptive forward error correction, error recovery, congestion avoidance, bonding of multiple transmission paths and dynamic feedback to control encoder bitrate, all at a minimal latency and with the security of AES-128/256 or DTLS.

With minimum overhead to physical bandwidth, this dynamic mechanism removes jitter, recovers and re-orders packets, smooths video delivery enabling the streaming of broadcast-quality video over any distance, while overcoming the varying network conditions of unmanaged IP networks including the public Internet.

The Zixi ecosystem consists of three components:

- **Zixi Feeder** receives MPEG2TS over IP from a source such as a na encoder/multiplexer or is integrated directly into an encoder or DCM and delivers the data via the Zixi protocol to a Zixi Broadcaster. Encoders with the Zixi Feeder built-in are available from vendors such as Ateame, AWS Elemental, Harmonic, and more
- **Zixi Broadcaster** receives streams in the Zixi protocol over IP or in the RIST protocol over IP from RIST compliant devices. The Zixi Broadcaster then delivers the streams to other Zixi Broadcasters and Zixi Receivers, including the Receiver integrated into the Bitmovin live encoder.
- **Zixi Receiver** requests the data from the Broadcaster, converts the Zixi protocol back into MPEG2TS, and provides that data over the local network or directly into an application that has integrated the Receiver.

ABOUT BITMOVIN

Bitmovin is a leading provider of video infrastructure for online media companies and enterprises globally. Bitmovin technology innovations focus on video encoding, playback, and analytics around user experiences. Innovations include the co-authoring of the MPEG-DASH streaming protocol, and massively parallel cloud-native encoding.

ABOUT ZIXI

Zixi provides a cloud based and on-premise software platform enabling the management, orchestration, monitoring, and delivery of broadcast-quality live and live linear video over managed and unmanaged IP networks to broadcasters, enterprises, over-the-top video providers, and mobile service providers around the world. Over 10+ years, the Zixi Enabled Network (ZEN) of partners has grown to over 80 OEM and service providers with whom Zixi serves well over 500 customers representing most of the top media brands around the world with 10,000+ channels delivered daily.

HORIZONTAL SCALABILITY MULTIPLIES VIDEO ENCODING PERFORMANCE

