



OPEN BROADCAST SYSTEMS AND ZIXI DELIVER BROADCAST-QUALITY VIDEO TO MILLIONS OF CUSTOMERS

SEAMLESS VIDEO DELIVERY OVER BONDED 5G, 4G/LTE AND WI-FI IP CONNECTIONS

HIGHLIGHTS

OBE Encoders/Decoders with Zixi Integration

C-100 Encoder/Decoder

high-quality, low-latency news, sport and channel contribution. More cost-effective than comparable solutions, it allows flexible deployment of contribution services in pure software or on a wide variety of high-density chassis.

C-200 Encoder/Decoder

high-end contribution services for sports and linear channel delivery.

Key Features

- Entry-level 8 bit encoding/decoding (C-100)
- High end contribution, support for 10 bit 4:2:2 (C-200) encoding and decoding
- Combined encoder and decoder, reducing hardware requirements
- Runs as software
- Ultra-low latency
- Multiple feeds can be encoded or decoded on a single server, allowing for high-density deployments
- Native support for Uncompressed IP such as ST 2110 and 2022-6
- Support for Bonded 5G dynamic routing

BONDED 5G UNLOCKS OPPORTUNITIES

As 5G continues to roll out globally, video providers are looking to maximize higher connectivity, on-the-go bandwidth capabilities to deliver better video experiences. While remote production over 5G networks will enable broadcasters to deliver better entertainment experiences, technology providers are challenged with maintaining high quality video over these new networks.

ADDRESSING THE NEED FOR HIGH-QUALITY VIDEO DELIVERY AROUND THE WORLD

Open Broadcast Systems offers a modernized approach to broadcast technology; moving the industry towards a flexible, cost efficient and software-driven future. Its cutting-edge end-to-end encoding and decoding software is accelerating the delivery of premium content over IP, improving quality at the same time as reducing costs for broadcasters and service providers.

The company's agile products adapt to pressures and challenges of the modern broadcast environment, specifically the OBE C-100 and C-200 Encoders/Decoders integrated with Zixi. The OBE C-100 platform, with primary use cases being news, sports production, and B2B channel distribution, allows customers to deliver high-quality, low-latency news, sports, and channels. This entry level solution makes it extremely simple and cost efficient for users - available in a wide variety of form factors. The OBE C-200 platform, used in high-end sports and B2B channel distribution, is used to deliver premium broadcast content to millions of people around the globe including in remote production use cases with sports

content, where quality, low latency, and a seamless feed is extremely important. In particular, the C-200 also supports Uncompressed IP formats such as ST 2110 and 2022-6, making it a future-proof solution

A major benefit of these platforms comes in the form of 5G support, making it possible for customers to contribute live video over 5G without the need for external hardware and experience broadcast quality at sub 100ms latencies over mobile networks. The platforms also allow multiple feeds to be encoded and decoded on a single server, reducing hardware requirements and allowing the same license to be used in different locations and times.





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UTILIZING ZIXI TECHNOLOGY TO ENSURE BROADCAST-QUALITY STREAMING, 5G CAPABILITIES

KEY ZIXI BENEFITS

- **Reliability** – Contribute source streams with 99.999+% broadcast reliability; 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
- **Security** – Zixi provides best-in-class security enhanced with DTLS and AES standards-based protection
- **Interoperability** – Zixi is compatible with the largest ecosystem of encoding devices and contribution sources
- **Centralized Management** – ZEN Master can provide a centralized view of the entire Zixi-enabled contribution and distribution network
- **Agile Deployment** – Dynamically scale out video routes and infrastructure, on-prem or in the cloud, in minutes with live orchestration in Zixi ZEN Master

Open Broadcast Systems' encoders and decoders integrate Zixi to ensure that customers get a seamless feed. Thanks to Zixi's bonding of IP networks, there is a seamless alternative whenever necessary ensuring that if a connection is lost, others are available to continue reliable streaming. Open Broadcast Systems' encoders and decoders allow sending multiple feeds in one solution, making the combination even more attractive to customers.

Zixi Feeder and **Zixi Receiver** applications are installed alongside C-100/C-200 software and accessed via Zixi's own interface, meaning all Zixi controls are available. This also enables direct, managed integration with **AWS Media Connect**, enabling OBE users to seamlessly plug in to their own AWS environment. Zixi Feeder is relevant to live contribution workflows that utilize multiple transmission paths not guaranteed to remain stable, while Zixi Receiver is useful for those subscribed to a B2B distribution platform via public cloud service. Zixi advanced error correction bonding techniques enable the OBE contribution encoder to deliver reliably over multiple 5G, 4G or wired connections - with hitless failover across all connections.

To orchestrate, monitor and manage live streams at scale, **Open Broadcast Systems** users can now choose to leverage **ZEN Master**, Zixi's cloud-based control plane that allows for the simple configuration, orchestration and monitoring of the devices, sources and destination streams that are part of the video transport network.

The **Zixi Protocol** is a resilient congestion and network-aware protocol that adjusts to varying network conditions and employs patented, dynamic Forward Error Correction techniques for error-free video transport over IP with 99.999+% uptime at minimal latency. With minimum overhead to physical bandwidth, the Zixi protocol 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 networks.

ZEN MASTER



OBE Encoder/Decoder

ABOUT ZIXI

Zixi provides a cloud based and on-premise Software-Defined Video Platform that enables reliable broadcast-quality video delivery over any IP network, any protocol, any cloud provider and any edge device. Over 10+ years, the Zixi Enabled Network (ZEN) of partners has grown to over 200 OEM and service providers with whom Zixi serves well over 700 customers representing most of the top media brands around the world with 10,000+ channels delivered daily.

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ABOUT OPEN BROADCAST SYSTEMS (OBE)

Open Broadcast Systems is revolutionizing the provision of advanced broadcast technology, moving the industry towards a flexible, cost efficient and software-driven future. Its cutting-edge end-to-end encoding and decoding software is accelerating the delivery of premium content over IP, improving quality while reducing costs. Solutions developed by Open Broadcast Systems deliver services to millions of people and events daily. Its products adapt to the pressures and challenges of the modern broadcast environment and developing solutions in extremely short timeframes without compromising on quality.

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