



ZIXI-INTEGRATED NEXT-GENERATION PLYOUT SYSTEM

CORALBAY.TV LEVERAGES ZIXI TO IMPROVE SIGNAL DISTRIBUTION RELIABILITY BETWEEN THE PIPELINE AND CLOUD PROVIDERS

AT A GLANCE

CORALBAY.TV SOLUTIONS WITH ZIXI INTEGRATION

coralPlay - is a new-generation playout software that offers automation control and video pipeline, delivering video and audio in a variety of output formats. In addition to primary video, coralPlay provides secondary functions such as graphics and subtitling.

KEY FEATURES

- **Designed for the Cloud** – Microservices-based architecture. Docker containers; Kubernetes deployment and orchestration.
- **Cloud/On-prem Portability** – Can be hosted in any public cloud, VM or on-premise servers.
- **Scalability** – Scales from one to hundreds of channels, fault tolerance options.
- **Effects and Subtitles** – Including HTML5 graphics, after-effects pre-rendering, DVB open and closed subtitling, and SCTE 35 triggering.
- **Wide Range of Formats** – Including MPEG-2 and h264 TS, NDI, HLS and 2110 I/O, AVC, DV, HDCAM, MOV and MXF, AC-3, PCM, AAC, MP2, and more.



SOFTWARE THAT REPLICATES ALL THE FUNCTIONALITY OF HARDWARE PLYOUT PRODUCTS

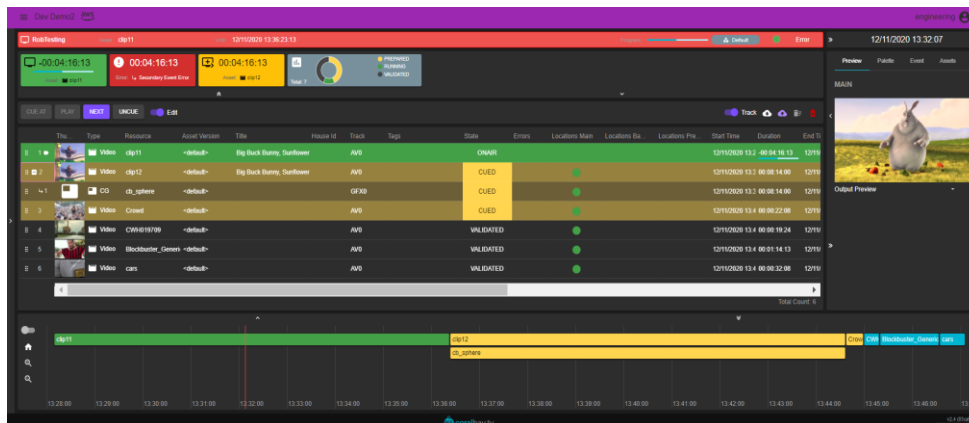
coralPlay is a new-generation playout software that replicates all the functionality of older traditional hardware playout products, such as video servers, graphics devices, subtitle inserters, switchers and more. However, unlike traditional solutions, coralPlay offers additional flexibility in where it can be hosted, the ability to offer a wide range of I/O, and the ability to play out a wide range of wrappers and formats. The software system can scale from one to hundreds of channels, which can be launched within minutes and be decommissioned easily after use, without the need for complex re-wiring or having to take the system down to perform software updates. With the integration of the Zixi Software-Defined Video Platform (SDVP), broadcasters can seamlessly shift towards software-based infrastructure while maintaining all the functionality and reliability of hardware-based playout solutions.

REDUCE COSTS WITH MORE EFFICIENT RESOURCE USAGE

coralPlay uses the latest cloud-based technologies, including microservices, Docker containers and Kubernetes for deployment and orchestration. The software is event-based, rather than clock-based, making it much more efficient in resource usage, which is an important consideration for reducing running costs, especially when hosting in the cloud. coralPlay can be hosted anywhere, including public clouds such as AWS, Azure, Google Cloud, OVH or on-premise, on a virtual machine or bare-metal servers.

IMPROVING THE RELIABILITY OF SIGNAL DISTRIBUTION

coralbay.tv has integrated the SDVP in coralPlay's video pipelines to improve the reliability of signal distribution between the pipeline and either AWS Media Connect (for AWS hosting) or Zixi Receivers (for other cloud hosting). Using Zixi's unique technology, coralPlay users can enjoy secure lower latency, error-free live content delivery over IP with up to 45% packet loss recovery.





RELIABLE BROADCAST-QUALITY DELIVERY OVER ANY IP

KEY ZIXI BENEFITS

- **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
- **Centralized Management** – ZEN Master provides a centralized view of the entire Zixi enabled contribution and distribution network

LEVERAGE ZIXI'S SOFTWARE-DEFINED VIDEO PLATFORM FOR RESILIENT AND RELIABLE DELIVERY

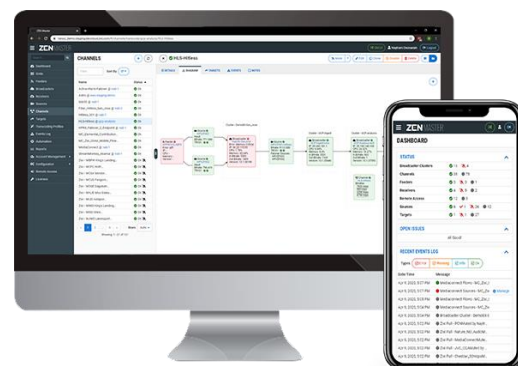
With Zixi integrated into coralPlay, coralbay.tv users can leverage key elements of the Zixi SDVP to transport broadcast-quality live video over challenging IP network conditions.

The **Zixi protocol** is a resilient congestion and network-aware protocol that adjusts to varying network conditions and employs patent pending, dynamic Forward Error Correction techniques for error-free video transport over IP with 99.9999% uptime at minimal latency. It allows for protected multicast transport, provides bandwidth efficiency and enables encoder backpressure. The Zixi protocol removes jitter, recovers and re-orders packets, smooths video delivery enabling the secure streaming of broadcast-quality video over any distance. In addition to the Zixi protocol, the SDVP accepts 16 other industry protocols, so users can leverage the protocol that best fits their delivery needs.

The SDVP's **video solutions stack** provides essential software tools and core media processing functions that allows for transcoding, auto-slating and time-shifting over multiple transmission paths and bitrate adaptation to ensure reliability over any IP network, any protocol, and any cloud provider, allowing for ease of interoperability with existing infrastructure.

SIMPLE STREAM CONFIGURATION, ORCHESTRATION AND MONITORING AT SCALE

As a ZEN Master Certified partner, coralbay.tv solutions can choose to leverage Zixi's **ZEN Master**, the cloud-based control plane that allows for the simple configuration, orchestration and monitoring of the devices and appliances that are part of the video transport network.



Zixi's ZEN Master UI

Key ZEN Master benefits:

- **Multi cloud infrastructures** (AWS, GCP, Azure) allow for agile scalability
- **Root Cause Analysis** – Error detection and isolation across streams and environments
- **Automation** – Schedule a set of tasks and run them with a single click
- **Enhanced Reporting** – Granular reporting provides key data, including usage reports, status summaries, and up-time and outage reporting
- **Monitor Global System Health** – Confirm QoE and QoS – ZEN Master offers TR101, Content Quality Analytics, Business Impact Analytics, AI Quality Scoring
- **Workflow Visibility at Scale** - Scale from one to hundreds of channels easily while maintaining control over and visibility into the entire workflow

ABOUT CORALBAY.TV

Based in the United Kingdom, coralbay.tv offers real-time playout, workflow and content preparation solutions for both cloud and the facility. Their products are specifically designed to work in cloud environments with an emphasis on security, elasticity, redundancy and deployment.

Contact: admin@coralbay.tv

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.

<https://zixi.com/>

Contact: sales@zixi.com