VITEC Playout Server
Contribution & Distribution Server

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The VITEC Playout Server allows organizations to deliver content anywhere, anytime. It provides a central location where IPTV streams can be received and transmitted. VITEC's Playout Server can receive unlimited Zixi™ protected streams from any network (including the internet) and forward them as a user defined multicast or unicast MPEG Transport Stream over UDP (UDP TS) or as a Zixi protected stream.

Used in conjunction with VITEC's MGW portable encoders and decoders, the server supports H.264 and bandwidth-efficient HEVC streams with stream protection technology for delivering reliable video streams across lossy networks (up to 30% packet loss) ensuring consistent video quality and a smooth playback.

The Playout Server allows simplified content delivery of encoded digital news feeds, government full motion video (FMV), and house of worship or sports venue channels over lossy networks.

Best HEVC quality delivered with MGW Ace Encoder

The VITEC Playout Server provides an efficient platform to capture all available IPTV protected streams transmitted from encoders in the field and distribute them over corporate LAN infrastructure.

When used in conjunction with VITEC's MGW Ace Encoder, and its high quality/low bandwidth HEVC Gen2 codec, the server provides a perfect solution to enable contribution over the Internet and avoids the use of expensive and less flexible fiber or satellite transmission infrastructure, leading to a dramatic reduction of operating expenses (OPEX).

The multiple-award-winning MGW Ace Encoder is a hardware-based HEVC encoder powered by VITEC's second-generation 4:2:2 10-bit HEVC codec (Gen2). This compact but powerful streaming appliance features unmatched video quality and highly efficient bandwidth compression. Built-in advanced stream protection guarantees reliable video distribution over any network, including the Internet.

Easy to Setup

An unlimited number of encoders spread around the globe can be set to target a single IP address associated with the VITEC Playout Server. Firewall friendly, a single port must be opened to start receiving the incoming protected streams.

Easy to Use

Tailored to streamline IP video contribution for broadcasters, the VITEC Playout Server gives staff a straightforward interface for visually managing all incoming feeds from around the world. When a feed comes in, it is automatically detected and appears on the intuitive web-based management interface. Users can view actionable information and statistics such as quality of the network link, packet loss, and other metadata in a multi-grid, giving them a centralized location for aggregating content and monitoring incoming feeds. Control room staff can drag and drop each input to the appropriate output stream; either for rebroadcast, video-on-demand, recording or other applications.

Scalable

The Playout Server allows for inbound traffic up to 400Mbit/s as well as outbound traffic up to 400Mbit/s.

Secured

VITEC encoders and decoder provide the capability to efficiently encrypt the audio and video stream. The VITEC Playout Server handles the management of such encrypted streams to ensure your content is fully secured, end-to-end.

To ensure full compatibility with civilian and federal secure environments, the VITEC Playout Server has been designed to conform to the most stringent network and information assurance security standards. Specific accreditations can be provided by VITEC upon request.
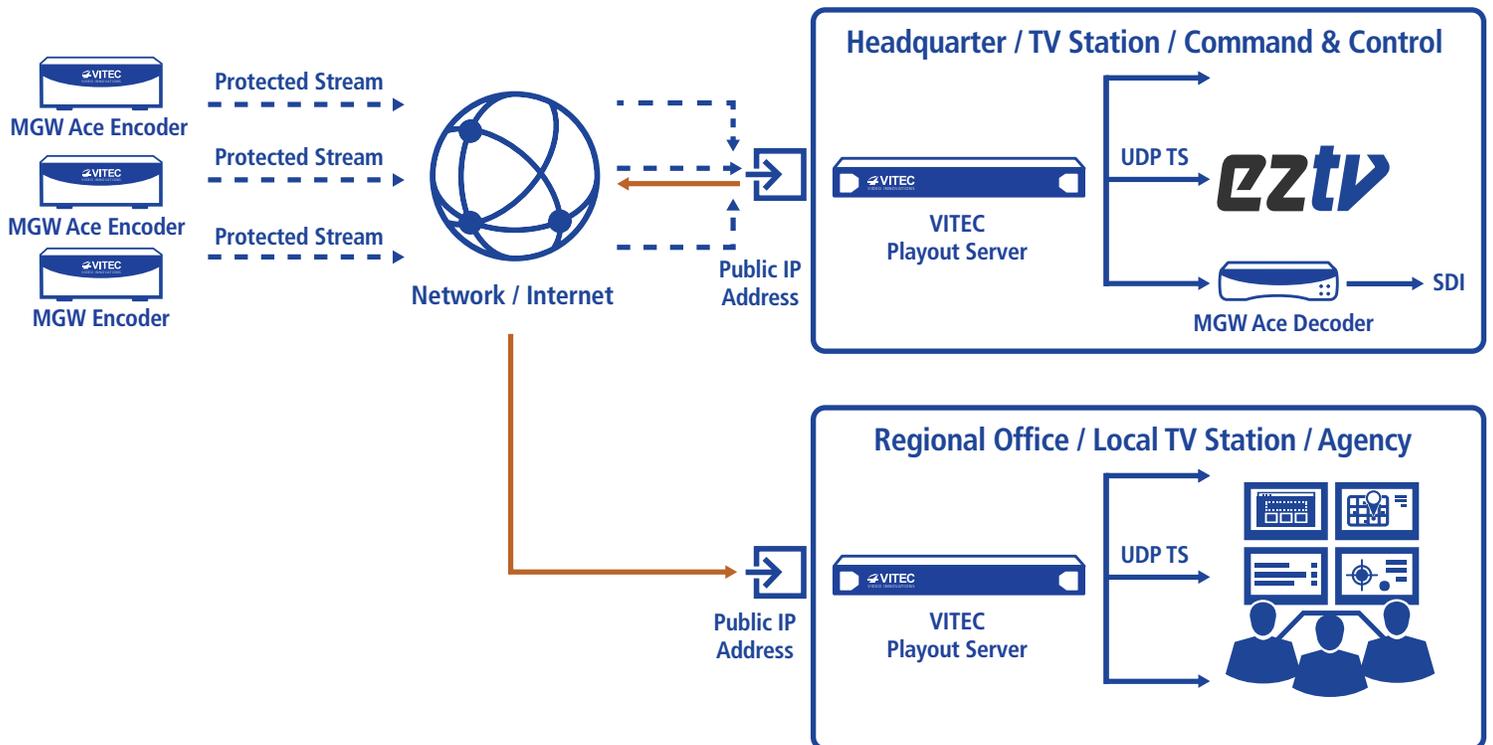
Key Features

- Centralized contribution server for simplified stream management
- Automatically capture and preview unlimited Zixi Protected streams
- Distribute received streams as MPEG Transport Streams over UDP (UDP TS) or as Zixi protected streams
- Support H.264 and low-bandwidth HEVC streams
- Easy setup, easy to use and scalable

Key Applications

- Contribution and Multi-site distribution
- Digital News Gathering from the Internet and field broadcast IP streaming
- House of Worship, Sports Venues, In-House and Multi-site Distribution
- Full Motion Video stream management and distribution

MGW Ace Encoder

Protected Stream

MGW Ace Encoder

Protected Stream

MGW Encoder

Protected Stream

Network / Internet

Public IP Address

Headquarter / TV Station / Command & Control

VITEC Playout Server

UDP TS

eztv

SDI

MGW Ace Decoder

Public IP Address

Regional Office / Local TV Station / Agency

VITEC Playout Server

UDP TS

Technical Specifications

Video Inputs

- Automatic discovery of incoming protected streams
- Matrix view to monitor input and output streams in a single view
- Simple drag and drop feature to route any protected input stream to a user defined output stream
- Live channel analytics to monitor quality of service
- Stream capture and record directly onto to the server or to a network location
- Support for H.264 and HEVC streams
- Up to 400Mbps inbound and 400Mbps outbound traffic per server: up to 100 channels can be managed using a single Playout Server using 4Mbps streams
- API for integration with third party systems

Footprint

VITEC Playout Server is offered on a 1-RU physical server and as a software package that can be installed on any third-party machine or as a Virtual Machine.

Physical server specifications

- HP DL20 Gen 9, Quad-Core 3.0GHz CPU (1-RU)
- 16GB RAM
- 2 x 1Gbps network interfaces
- 2 x Power supplies 290W AC 110/240V 50/60 Hz
- Windows 2012 Server R2 64-bit
- Dimensions: 1.70" (4.32cm) Height x 17.11" (43.46cm) Width x 15.05" (38.22cm) Depth
- Weight: 17.37lb (7.88kg)
- TAA Compliant

Minimum requirements for installation on third-party servers or as a virtual machine

- 1 x Quad Core 3.0GHz CPU
- 4GB RAM
- 2 x 1Gbps network interfaces
- 50GB Disk Space
- Windows 2012 Server R2 64-bit

Ordering Information

17367 ⟶ VITEC Playout Server (Physical) with 1x 5Mbps UDP TS or Zixi Output License

17407 ⟶ VITEC Playout Server (Physical) with 1x 10Mbps UDP TS or Zixi Output License

17557 ⟶ VITEC Playout Server (Virtual Machine) with 1x 5Mbps UDP TS or Zixi Output License

17558 ⟶ VITEC Playout Server (Virtual Machine) with 1x 10Mbps UDP TS or Zixi Output License

17408 ⟶ Playout Server License - x1 UDP TS or Zixi Output - 5Mbps

17374 ⟶ Playout Server License - x1 UDP TS or Zixi Output - 10Mbps

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