

EZ TV MULTI-SCREEN STREAMING SERVER



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Extend the reach of your IPTV content to phones, tablets and to remote users



Create your own private IPTV content distribution network (CDN) and deliver live content to mobile devices using the Enterprise WiFi network and to remote users' TVs, PCs and Mobile devices over VPN/WAN connections.

As small and large organizations migrate legacy video distribution systems to new IP-based solutions, the need to offer users more ways to access IPTV content grows as well. EZ TV's Multi-Screen Streaming Server add-on enables video groups to easily extend the reach of their IPTV system to phones, tablets and other devices used by local or remote users. The Multi-Screen Streaming Servers can be rapidly deployed and seamlessly integrated to any VITEC EZ TV environment and form a private, secure, content distribution network (CDN) that can scale from single site to multiple sites and manage network bandwidth smartly while delivering high quality H.264 and HEVC video streams to any user and any device.

VITEC's Multi-Screen Streaming Servers can be deployed as physical servers or as virtual machines and can be positioned at the HQ and at the edge remote sites such that users who require access to live IPTV streams are served from a nearby server as opposed to maxing out available up-link bandwidth at the HQ by requesting content from a single location.

The EZ TV Mobile Player application is a powerful, user-friendly app for smart phones and tablets that enables enterprise network users to access live and on-demand content. IPTV content can be delivered via unicast or multicast to any iOS, Android or Windows Mobile device with minimal latency. The EZ TV app also supports VITEC's military-grade AES 128/256-bit encryption for securing sensitive video content.

VITEC's Multi-Screen Streaming Server simplifies content management and user access controls by integration with the Enterprise's Microsoft domain and its policies allowing IT teams to easily regulate access to content and control app features without the need to maintain a dedicated user database for mobile video services. EZ TV Administration Portal provides real-time status and usage statistics for all deployed streaming server instances helping system admins monitor and manage the solution from one centralized interface.

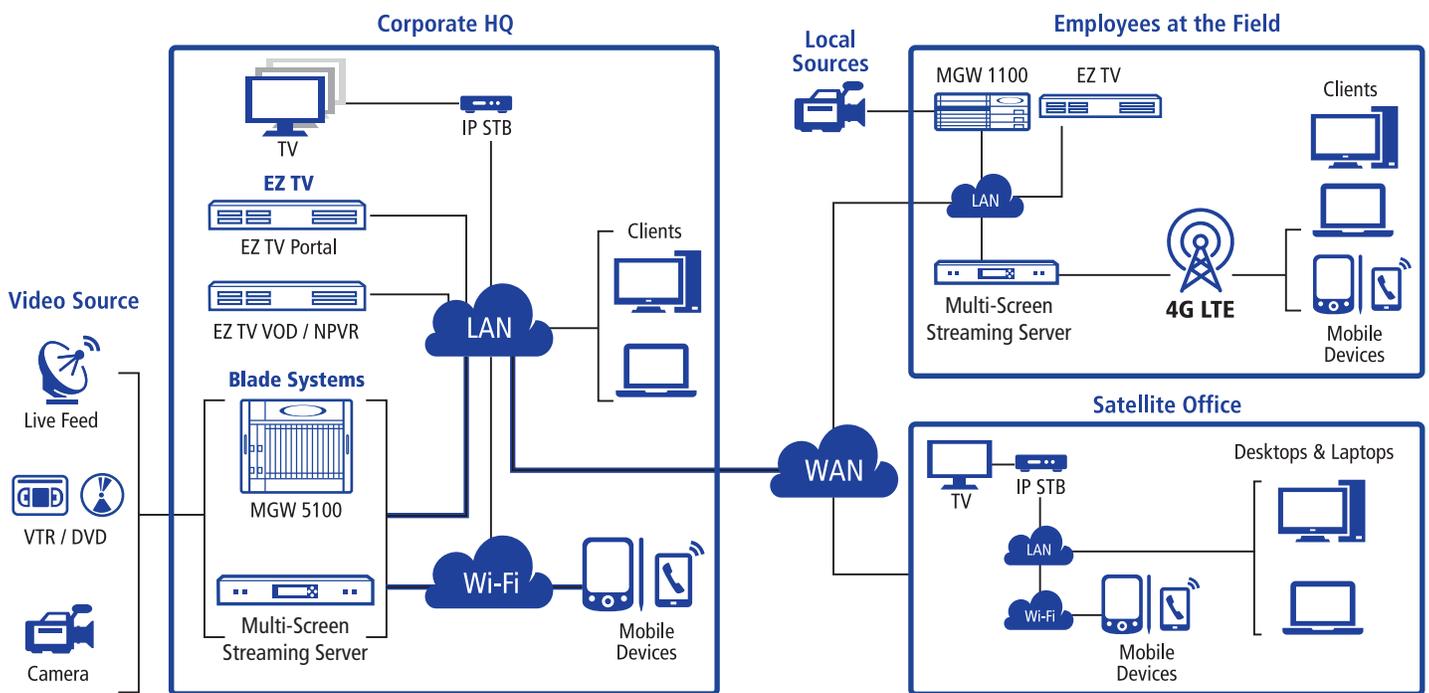
Applications

- **In-House TV over IP:** End reliance on coax-based video delivery and allow users to access video from anywhere on your LAN or WAN.
- **News and Business TV:** Enhance teamwork by enabling long-distance collaboration while still keeping an eye on the competition. Provide more information to your employees by empowering them to view relevant video when it counts, wherever they are.
- **Stream Situational Awareness Video to the Field:** Relay real-time mission video and decision support footage to troops on the ground, directly to their mobile devices and rugged laptops.
- **Corporate:** Extend the reach of corporate video such as video conferences, all-hands meetings and HR videos to mobile users and remote employees.
- **Production Houses:** Stream promos or new ads directly to managers or clients for real-time feedback. No more costly shipping of tapes or DVDs and delays in receiving input.
- **Sports Venues Enhanced Fan Experience:** Offer live game-day streams, TV channels and on-demand replays in your EZ TV team app or to stationary tablets installed in premium seats and luxury suites.
- **Remote users:** Provide video to remote users over connections ranging from dial-up to DSL to cable with content delivery Over-the-Top (OTT) of the internet. Extend EZ TV connectivity to clients requiring a unicast connection, such as those using a VPN or IP tunnel over the WAN.



Key Features

- Seamless integration with EZ TV allows operators to quickly provision video streams for multiple wired and wireless devices, such as smartphones and tablets, all from a centralized web-based portal
- Automatically identifies wired and wireless device types and serves the appropriate stream format
- A selection of existing IPTV streams can be made available to devices at any time without affecting existing service
- Supports up to 10 unique sources and up to 500 concurrent viewers from a single streaming server instance
- Clustering capability enables deployment of local and remote server instances for managing a private CDN
- Integrated iPhone, iPad and Android EZ TV Player apps provide full channel guide synchronization and user authentication
- Provides video service to remote users that connect over a VPN or IP tunnel using networks with no multicast support
- Supports both H.264 and HEVC compression formats as input and output streams
- Two physical network interfaces for separating between source LAN streams to outbound WAN streams
- Ships on a hardened OS patched and scanned as per DISA guidelines
- SDK for integration of the EZ TV IPTV mobile player and content guide into your own app



Technical Specifications

Physical Server Specifications

- HP DL20 Gen 9, Quad-Core 3.0GHz CPU (1-RU)
- 32GB 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 15.05" (38.22cm) Depth x 17.11" (43.46cm) Length

Minimum Requirements for installation on third-party servers or as a Virtual Machine

- 1 x Quad Core 3.0GHz CPU
- 32GB RAM
- 2 x 1Gbps network interfaces
- 200GB Disk Space (OS only)
- Windows 2016 Server 64-bit

Supported Input Streams

Video Codec

- MPEG-4 Part-10 ISO / IEC 14496-10 (H.264/AVC) baseline, main and high profiles
- HEVC H.265 - ITUT H.265 / ISO IEC 23008-2
- Color system: NTSC, PAL
- Resolutions: QCIF up to full HD 1920x1080
- Frame rates: 1 - 60
- Aspect ratio: 4:3, 16:9
- Encapsulation: MPEG-2 transport over UDP multicast/unicast

Audio Codec

- AAC, AAC+, AAC LC, AAC HC, AC3, AC3+
- Bit-rates: 8 to 384 Kbps
- Mono, Stereo

Output Streams

- RTSP/RTP over TCP
- Apple HTTP streaming (HLS)
- Standard and high definition up to Full HD 1920x1080

Video Processing Capacity

- Up to 10 unique IP stream sources (SD or HD)
- Up to 500 concurrent mobile viewers
- Up to 500 Mbps total streaming capacity

Compliance

- CE EMC standards: 2004/108/EEC
- CE safety standards: 2006/95/EC
- FCC standards: FCC Part 15 Subpart B Class A

Management

- HTTP web management and monitoring dashboard
- Integration with EZ TV IPTV System for cluster management and remote configuration

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