Z-IP Portal

Video Distribution & Content Management System

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Product Description

The Z-IP Portal IPTV system delivers system management and desktop viewing of IPTV streams in an easy to deploy platform. The Portal uses IE or Safari to enable desktop viewing, and the user interface enables simple channel changing and content selection.

The Z-IP Portal allows for distribution of live and recorded content across your LAN or WAN. Desktop viewing is accomplished in IE or Safari through the use of a plug-in that enables the web browser to communicate with the Z-IP Portal Server. Users can be given customized content groups through integration with Active Directory and the Z-IP Portal facilitates AES encryption key sharing, helping keep content secure. The Z-IP Portal allows you to maximize the capability of your video system and make video an integral part of your environment.

The browser-based Z-IP Portal Player uses flexible, multi-format digital video codec to offer CPU-efficient, high-quality playback of IPTV streams up to full HD 1920x1080p60. With powerful features to enhance the viewing experience, such as a de-interlacing engine for smooth viewing of high motion content, Closed Captioning, Electronic Program Guide (EPG), Text Overlay and advanced features for Broadcast, Command, and Control monitoring, Z-IP Portal packs professional grade decoding capabilities into a feature rich and easy to use desktop interface.

The Z-IP Portal has enhanced communications with Z-Band Set-Top Boxes via our Middleware module. The middleware communicates with the STBs via multicast commands and enables the STB to display a customized user interface. The interface allows for display of custom content groups, Electronic Program Guide information, and enforces AES encryption on protected streams. The middleware platform also controls STBs for remote management such as channel change, scheduled events, and scheduled display of video on-demand content.

The Z-IP Portal enables Video-On-Demand using two different methods. PVR (Private Video Recordings), which are stored on the machine of each user and can be controlled and scheduled without permissions from the system administrator. The second method, NDVR (Network Digital Video Recording) is a centralized method of recording and uploading content that is controlled and scheduled by a system admin. End users and STBs can play back video content but may not be given authorization to record content on their own.

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Benefits

- H.265 enterprise IPTV viewing and playback.

- VeriSign secured and DOD verified browser plug-in for seamless deployment.

- Format-agnostic IPTV delivery platform seamlessly handles locally produced, off-air, and on-demand video content for playback on PCs, TV's and Mobile devices.

- Virtualization and high availability ready.

- Deployed on a Windows Server environment.

- Intuitive player interface makes selection of desired content and combinations simple.

- Single Administrator interface for managing, provisioning and monitoring all IPTV services in local and remote locations.

- Support for Over-The-Top (OTT) content: internet video channels.

Applications

- Corporate TV and company communications
- TV over IP replacing legacy cable systems
- Tactical full-motion-video (FMV) and Situational Awareness

- Command and Control
- Video Confidence Monitoring
- Training and Education

Key Features

- Supports HD and SD live and on-demand streams in MPEG-1/2/4, H.264/H.265 formats

- Mosaic views of up to 25 videos with Carousel Feature for monitoring 100's of channels on a single screen

- Multi-screen (PC, STB and mobile) browser-based IPTV Player

- Electronic Program Guide (EPG)

- Web-based admin interface for easy set-up and system changes

- Advanced VOD services including time-shift TV, pause, resume and skip ahead/back

- Local DVR recording options for viewing users on desktops

- VOD files and recorded content is available immediately after being copied to storage

- Built-in real-time AES 256/128-bit decryption

- Emergency broadcast system remotely tunes all clients to operator-specified channel

- Seamless integration of TV monitors, IP STBs and mobile devices, including dynamic automatic channel guide synchronization

- CPU Meter offers complete control of client machine resources for conflict-free operation

- Full integration with Microsoft Active Directory for managing access to live and on demand content for network users and groups using PCs, STB and mobile devices

- Closed captions overlay and placement for MPEG-2 and H.264 streams

- NDVR functionality allows recording of live channels for delayed playback