

CLIENT
THE CENTERS FOR DISEASE
CONTROL (CDC)

SOLUTION
EZ TV Video Streaming
Platform

CASE STUDY



The Centers for Disease Control (CDC)

VITEC's Newest Version of EZ TV with Multicast-to-the-Edge® Improves CDC's Video Streaming Capabilities

When it comes mitigating major threats to public health, it is imperative for organizations like the Centers for Disease Control (CDC) to keep their finger on the pulse of global developments that require a coordinated national or global response.

"In addition to being ardent consumers of news and information, doctors, scientists, and other healthcare experts at the CDC produce a tremendous amount of original content for both internal and external consumption. This makes the agency one of the most video-centric departments in the federal government," says Dan Quinn, Federal Sales Director at VITEC, a worldwide leader in advanced video encoding and streaming solutions for business, industrial and public sector applications.



The Challenge



Reliance on video traffic was compounded over the course of the COVID-19 pandemic, as CDC staff were sent to work from home where they collectively participated in exponentially more video meetings. This shift to working remotely resulted in a tremendous explosion of video traffic that put unprecedented stress on the CDC's enterprise networks.

VITEC's challenge for many enterprise customers, in corporate and public sectors, moving to remote work for most operations was the fact that major browser providers ceased support for tools that enabled network-efficient video multicasting. The work-around has historically been use of browser plugins to effectively stream video content to multiple destinations, but that is no longer an option. Everything changed when Google, Apple and Microsoft took browser-based tools off the market in the wake of security, stability, and performance concerns.

The Center for Disease Control (CDC) staff relies on timely access to—and delivery of—information about threats to public health. The CDC therefore requires a network that can quickly and efficiently deliver high-quality video content to key stakeholders.

The impact of all major browser vendors announcing that they would stop supporting NPAPI type browser plugins and legacy application extensions potentially meant costly upgrades for many enterprise video consumers.

VITEC deployed the latest EZ TV Platform update with Multicast-to-the-Edge® HTML5 IPTV Player Lite improving the CDC's video streaming capabilities, ensuring an optimal level of high quality for the CDC's mission critical activities to alleviate additional needs brought on by the pandemic.



The Solution

Addressing Network Costs and Performance

EZ TV Platform's Multicast-to-the-Edge® HTML5 IPTV Player had a positive impact on network costs and performance at the CDC. Browser vendor policies regarding application extension support meant VITEC had already developed a solution that improved streaming video quality that benefits the CDC. VITEC's EZ TV Player Lite addressed plugin challenges that had arisen for other customers, and it provides continued support of the CDC's mission critical video streaming.

VITEC's patented Multicast-to-the-Edge® (MttE) technology was deployed across the agency. This upgrade is timely, in that the feature now exists, to alleviate the same concern for all business enterprises and Federal agencies faced with similar requirements for a plugin-less live multicast video player.

This technology has been integrated into the latest version of VITEC's video streaming solution, allowing corporate and enterprise users, with substantial video traffic, to deliver live multicast video streams to any browser without the need for browser plugins or extensions on both Windows OS and Mac OS computers. EZ TV Player Lite has been deployed across the CDC, delivering extremely fast and efficient video streaming technology over the existing enterprise network.



FEATURED PRODUCT

EZ TV Platform's Multicast-to-the-Edge® HTML5 IPTV Player Lite

VITEC's video streaming technology enables organizations to deliver real-time TV and in-house multicast video to any desktop and laptop user without the need to install any browser plugins or browser extensions. EZ TV Player Lite enables multicast delivery of live and recorded video streams all the way to enterprise users' computers without going through an intermediate server or an external multi-unicast distribution server.

How VITEC Technology Improves Video Streaming Capabilities

Backed by VITEC's best-in-class maintenance and support programs, the CDC team will continue to benefit from VITEC's roadmap activities and innovations in the video streaming and enterprise IPTV domains to ensure its IPTV systems are always ahead of the curve and are always compliant with the latest trends in security, video compression and IPTV.

The CDC now enjoys the benefits of video compression at optimal efficiency, making it possible for increased s without additional latency. The solution, in short, provides the foundation for the CDC to support emerging video technologies and standards and benefit from the highest levels of video streaming performance.

Industry Leading Video Innovation

Founded in 1988 VITEC is a pioneer in the design and manufacture of hardware and software for video encoding, decoding, transcoding, archiving and streaming over IP. In 1992, VITEC developed the first MPEG-1 encoder for micro-computers and is continuing this legacy of innovation by leading the development of the newest VVC codecs (H.266).

Today, VITEC's HEVC (H.265) with Gen2+ codec and H.264 class of products are the most extensive on the market for encoding and decoding devices:

- 100% hardware based encode/decode solutions deliver the highest quality IPTV streams over satellite links, private networks and over the internet.
- PCIe cards with SDK makes VITEC a world-class provider of Custom Design and OEM for high-performance video systems.
- Award-winning EZ TV solution that is a powerful suite of IPTV services for content management, digital signage, video archiving, and video wall processing.

Making a difference with green initiatives, VITEC is the first Zero Carbon MPEG company and encourages customers to buy GreenPEG™ for continued environmental efforts to reduce greenhouse gases.