

Applications Note

Live Streaming to Local Cable Company via DVEO's MultiStreamer™ – Cavan TV – Cavan, Ireland

Introduction

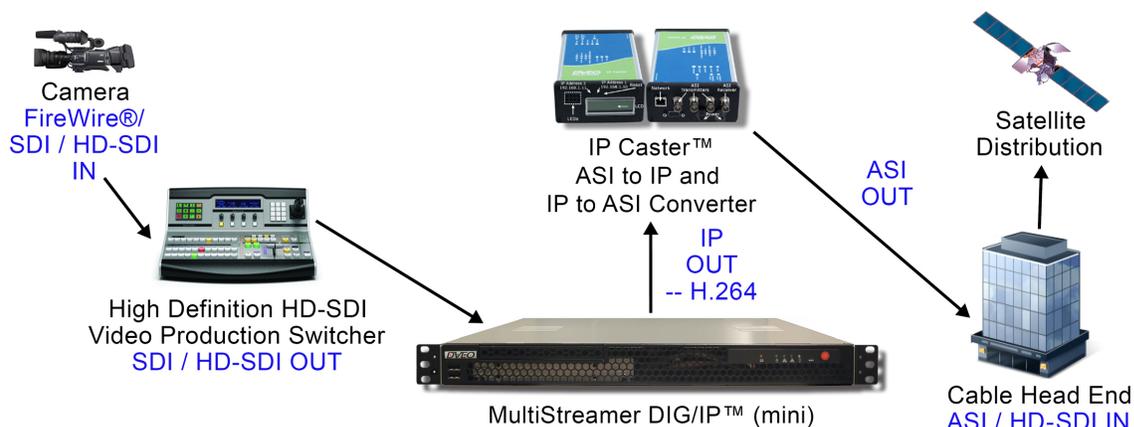
The All Ireland Fleadh Cheoil na hÉireann Cavan festival enjoys drawing 20,000 to 30,000 people to their annual cultural event. CavanTV.com acquired the broadcast rights many years ago. They have two feeds.

- 1) Stream the video feeds from the master switcher to the internet.
- 2) Stream the video feeds from the master switcher to the local cable company.

Live events are going more remote but the viewers expect the same quality but the costs are rising due to the remoteness. So how do you get broadcast quality from a remote location to cable and satellite companies?

CavanTV.com secured the contract to stream the above festival to the web and also to the local Cable Company, Smyth's Cablevision, for distribution over their network. The Cable Company required a 1080i/50 stream at 17 Mb/s from the Camera to ensure a good quality feed.

Brian Daley called DVEO in August 2011 with his needs. DVEO shipped a MultiStreamer™ unit along with an IP Caster™. The IP Caster's role is to convert IP to ASI for the head end of cable systems. The project workflow ended up like this:



A source feed was sent to a BlackMagic Ateame Switcher. From the Switcher a program feed was sent to a MultiStreamer DIG/IP™ which sent a H.264 stream to the cable company. At the cable company the IP Caster took in the H.264 then transcoded to ASI for their distribution. So this video went from SDI to H.264 to ASI.

According to Brian, the system worked well and the cable system successfully rebroadcast the event live on its channel.

Most interestingly, the MultiStreamer not only streams a “Flash” proxy to the IP Caster, but an identical stream can be HLS wrapped and submitted to a CDN (Content Delivery Network).

The advantage of this workflow is that you are able to deliver your broadcast quality video to a cable head end or satellite earth station using codecs that are industry norms in ways that were usually very expensive or time consuming to set up. This approach can be set up at a permanent solution or be a portable one. It's as easy as getting a static IP address and setting up the **MultiStreamer DIG/IP™**. Connect your source material – which may be SDI, ASI, or IP in – and then stream like you would do for a webcast. Then use a device like the **IP Caster™**, **FastCaster™**, or **T-Ramp™** to receive the IP source and transcode to ASI or any Professional IRD (integrated receiver / decoder) for any SDI decode. From the Decoder connect the SDI or ASI connection to any distribution device.

The MultiStreamer DIG/IP is a highly affordable Intel based H.264 encoder / transcoder designed for capturing SD or HD content and streaming this content to content delivery networks, cloud based transcoders, and remote video servers.

The MultiStreamer DIG/IP is designed to be an affordable platform to ingest video from cameras, editing systems, or video servers and encode the SDI or HD-SDI to multiple H.264 standard streams. It provides numerous choices for IP protocols, wrappers, and containers. This is easy to do since we are using Linux® and these outputs are well supported by the Linux® environment.

DVEO's industry established streaming media bridge, the **IP Caster™**, is a low cost appliance for anyone wishing to deliver their compressed SD or HD content over IP networks. It is most useful in many applications, such as delivery of compressed HD streams between TV stations and cable head ends.

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