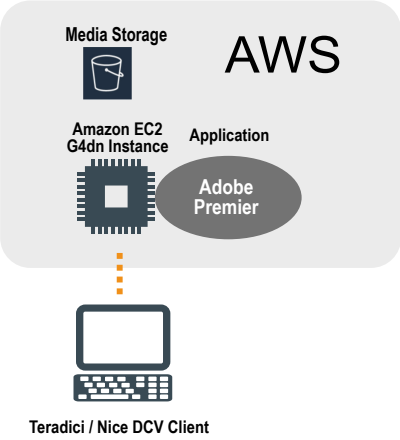
Spectra Leverages AWS for Work-From-Anywhere Scenarios

Work from home is now a widely accepted practice in the Post Production industry. It is embraced by agencies, post facilities and creatives alike, and has pushed the boundaries of what is possible in terms of virtual collaboration.

Amazon AWS Media Services has played a major enabling role by providing scalable, cloud-based solutions for video processing, data storage and transport. This, in turn, has encouraged video application developers, such as Adobe, Autodesk and Avid, to migrate their desktop solutions to the cloud, completing the picture.



Here is a typical setup, using Adobe Premier. The editor connects to a virutal instance of Premier with a thin client such as Teradici and gets a return video feed on the desktop.

It is also possible to connect a specialized control panel, e.g. Jog Wheel, via USB.

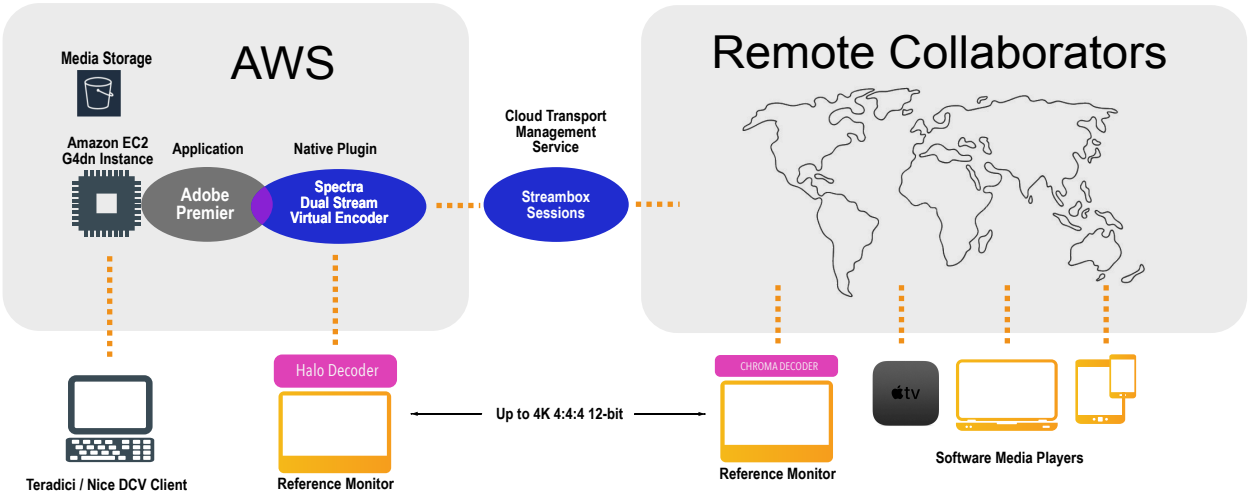
This all work fine in some situations, but presents two issues in more complex scenarios. The first is the lack of high-quality, color accurate monitoring, which is critical for things like video effects and color grading. The second issue is the inability to conduct live reviews / approvals with remote collaborators.

With this in mind, Streambox has developed a number of products that address these issues and effectively closes the circle for deploying a virtual environment that feels like an on premises experience.

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Streambox **Spectra** is a virtual streaming encoder that serves as a plugin for SaaS video applications, including Adobe Premier, Avid Media Composer, DaVinci Resolve and Autodesk Flame. It is capable of streaming up to 4K 4:4:4 12-bit, and up to 16 channels of audio, satisfying the most demanding situations.

Spectra is compatible with the full range of Streambox decoders, including software-based media players for tablets, laptops and Apple TV, enabling highly versatile workflows and collaboration scenarios,



Spectra provides a dual-stream output. The two streams can be configured independently to suit the client's requirements and deal with situations where they have limited bandwidth connections.

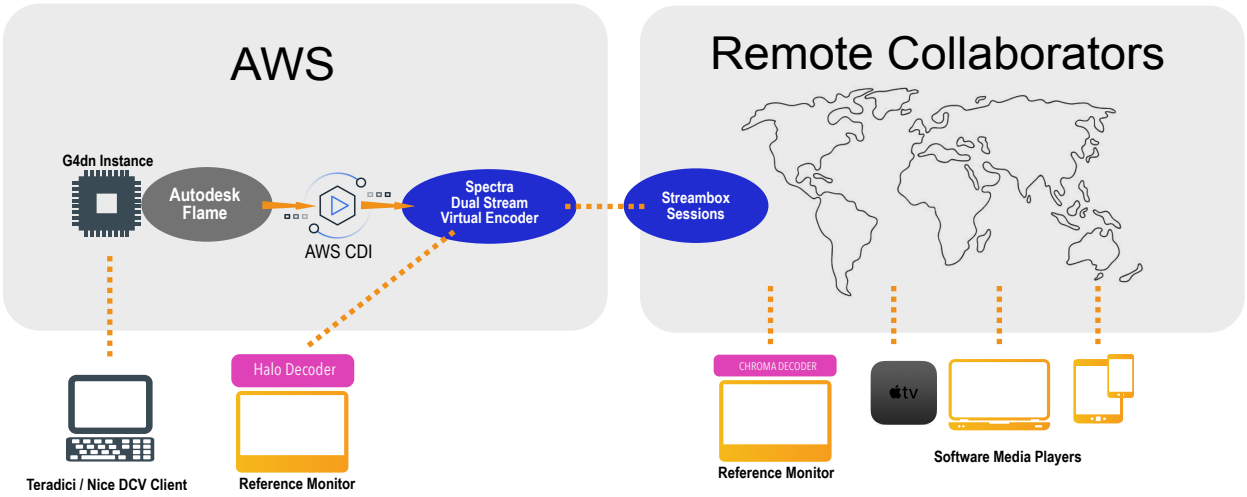
In the scenario above, Spectra provides the Editor with a full-resolution, color-accurate video feed, just as they would have in an edit bay.

The second feed from Spectra is routed to Streambox Cloud Services, which provides low latency feeds to any number remote clients. Clients can choose from a wide range of decoders and media players to suit their needs. Free software media players are especially useful because they eliminate the logistics issues associated with shipping proprietary decoders. Media Player for iPad Pro provides an experience very close to a reference monitor.

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Live video streams require serious high bandwidth and processing power. AWS Cloud Digital Interface (AWS CDI) is a network technology that allows you to transport high-quality uncompressed video inside the AWS Cloud, with high reliability and network latency as low as 8 milliseconds. You can use AWS CDI to build live video workflows that connect select AWS Media Services, products from AWS Partners, and offerings from Independent Software Vendors (ISVs).

Spectra is a CDI compliant application. The diagram below illustrates how Spectra can provide a bridge between CDI streams and live video feeds.



Summary

Streambox Spectra for AWS extends the power and utility of cloud-based video applications by providing encoding, decoding, transcoding and transport services. Color accuracy, resolution up to 4K DCI, sampling up to 4:4:4 and color depth of up 12 bits provide no-compromise quality, and compatibility with the full range of Streambox products means you can build both pure cloud and hybrid workflows for the full range of professional media activities, from contribution to post and remote production.

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