

Beyond Lecture Capture: Transforming and Sharing Video for Next-Generation Learning

Easy-to-use video capture devices make it more convenient than ever to record lectures. It's the next steps that often stymie campus users. In the past, students, faculty, and staff who wanted to share video usually had to enlist a video specialist from the IT department. That's changed with a new generation of easy-to-use tools that Cisco calls Lecture Vision.

"Lecture capture is just one part of a process that also includes editing, publishing, archiving, and distribution," says John Tuohy, education solutions manager at Cisco. "You can think of the process in three parts: capture, transform, and share."

Capture High-Definition Video-Without Recruiting Someone to Hold the Camera

Faculty, staff, and students can capture video using any capture device, including a built-in or clip-on camera on a laptop, a video camcorder or smartphone, or professional equipment. They can even use a Cisco TelePresence® system. For example, at Our Lady of the Lake University in San Antonio, Texas, graduate psychology students need to capture video of their counseling sessions to share in class. Now they use a Cisco® TelePresence System Quick Set C20 to transform a high-definition display in the counseling room into a telepresence system, including a camera. At the beginning of a session with a patient, the student simply enters a name and date on a touchpad and presses a button to begin recording on a central Cisco TelePresence Content Server. Then the Cisco MXE 3500 Media Experience Engine automatically adds a watermark to the video to indicate that it cannot be shared, and publishes it to Cisco Show and Share®, a webcasting and video sharing application. To comply with healthcare privacy regulations, the video is visible only to the professor and fellow classmates.

Transform Video for the Different Ways Viewers Will Consume It

Students might view a calculus lecture on variety of devices, including personal smartphones or tablets, home PCs, and even large, flat-panel displays in lecture halls or residence halls. In the past, transforming the video for viewing on different devices required specialized skills and hours waiting while the encoding equipment chugged away.

Now, with the Cisco MXE Media Experience Engine, transforming captured video to display correctly is as easy as selecting the device types. Clicking another box directs the Cisco MXE to automatically create a transcript of the video, which appears alongside the video as it plays. "You can search the transcript for a particular speaker's name or keywords to go right to the relevant portion of the video," says Tuohy. Written transcripts are especially helpful for students who are deaf or learn better by reading than listening. The transcript can also be translated to other languages.

Share to Make the Experience Interactive

After creating videos, campus users can make them available for viewing on Cisco Show and Share. People can log in to search for and view videos from any device. A free Show and Share app is available for iPhones and iPads. "The advantage is that students have the freedom to watch the video anytime, anywhere, with any device," Tuohy says.



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What's more, an interactive viewing experience helps to engage students. For example, students can post comments that appear to subsequent viewers when that portion of the video is played. And student and faculty can also respond to each other's comments, creating a dialogue. "An instructor who notices a lot of questions five minutes into the video gets valuable feedback that the concept needs further explanation," Tuohy says.

West Texas A&M University uses Cisco Show and Share in a course called Cultural Intelligence, in which students interact with their peers in Russia and Germany and share video giving their perspectives.

Don't Forget the Network

To make sure that video doesn't clog the network or slow performance for other campus applications, campus IT teams can take steps to simplify managing and troubleshooting. Cisco medianet technologies help transform the existing network into a video-ready network. In conjunction, the Cisco Enterprise Content Delivery System makes the most of existing bandwidth.

To learn more about Cisco Lecture Vision, visit:

www.cisco.com/web/strategy/education/enhanced_edu_capture.html

To ready a case study about Our Lady of the Lakes University, visit:

www.cisco.com/en/US/solutions/collateral/ns813/cs_our_lady_of_the_lake_university.pdf

To watch a video on West Texas A&M University, visit:

www.cisco.com/en/US/solutions/collateral/ns813/vds_TXamUniv.html



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