



## EDUCATION ENVIRONMENT

PROVIDING THE LATEST DIGITAL AND INNOVATIVE INFRASTRUCTURES

### Customer Profile

Founded in 1970 the Institute of Technology Carlow is located in the centre of Ireland's South Leinster region. The college is dedicated to excellence in higher education through the provision of programmes leading to internationally recognised awards.

With a student body of almost 5.000 and an academic staff of 200, Carlow is committed to ensure that its learners and other members are afforded the opportunity to develop their full potential in a professional and supportive environment.

At the Institute of Technology Carlow, every effort is made to combine a stress-free location with top-level tuition and facilities that are the leading edge in a number of key disciplines both nationally and internationally.

### Challenge

In 2009, IT Carlow introduced a new degree course in **TV and Media Production** and set about a complete overhaul of their digital media facilities to support their wide-ranging and dynamic programs.

IT Carlow required a simple ingest solution that would capture media from various video sources such as HDV, Mini DV, DVD and VHS and generate media files that are compatible with both Apple Final Cut Pro and Avid Media Composer.

### The Solution

MOG Technologies partner - Tyrell CCT, provided the college with a dedicated high capacity media storage and distribution network to support two new media laboratories that host a combination of Avid, Apple and Adobe editing clients.

Tyrell CCT also provided Carlow IT with an ingest solution based around **MOG Technologies mxfSPEEDRAIL S1000 series 'SDI Recorder'**. mxfSPEEDRAIL S1000 works as a capture media from multiple devices for seamless delivery into their shared storage solution.



To accommodate a number of simultaneous ingests Tyrell CCT provided the college with four S1100 servers each coupled with a Blackmagic Design Broadcast Converter to allow a wide range of analog and digital video signals to be ingested.

The S1100 has the ability to place the generated media files directly on to IT Carlow's Avid ISIS shared storage, so that captured files can be immediately edited by any of the connected MacPro workstations.

Avid Unity ISIS system allows IT Carlow to storage space to individual students as well as giving students access to common storage space for group work.

The whole workflow was designed to capture media once and make it available to the students for simultaneous **real-time editing on MAC or PC applications** and on any of their editing platforms (Avid, Apple or Adobe).

The solution supports the digital technology requirements for a number of programs at IT Carlow including the BA in TV and Media Production, the BA in PR/Communication and the sports analysis programs for IT Carlow's BA in Sports and Exercise courses (Rugby, Soccer and GAA).

*"It was important for IT Carlow that the system provided could accommodate the widest range of editing environments available today and allow us to scale to accommodate future expansion."*

*"Tyrell CCT's education and technical specialists provided an invaluable insight into the technologies available and proved that they really understood the unique challenges and requirements in the education field."*

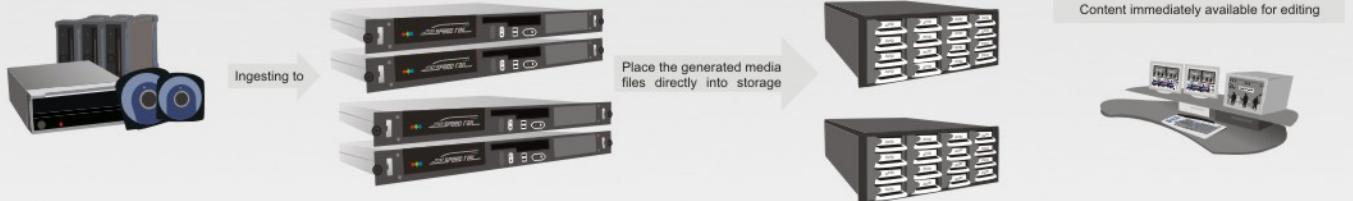
*Fergal Flanagan, IT Manager, IT Carlow.*

Several devices: HDV, Mini DV, DVD, VHS

4 unities - mxfsPEEDRAIL S1112 XD.HD coupled with a Blackmagic Design Broadcast Converter

2 unities: 16TB Avid Unity ISIS shared storage

Final Cut Pro and MediaComposer Editor Stations



tyrell:cct

M O G

AVID  
avid.com

*"Driven by increasing competition and rising student expectations, third-level colleges are really focusing on investment in the latest digital technologies that will allow them to effectively simulate real-world collaborative media environments,"*

*"IT Carlow has acquired a progressive media storage infrastructure that supports the media department's ambitious plans and allows students to get a solid insight into the collaborative ethos of shared workflow that they will encounter in the film and post production industry."*

*David O Beirne, Education Manager, Tyrell CCT*

## Benefits

Working in an editing environment modeled on today's collaborative production facilities allows lecturers to instantly access and review student work over the network. The system can scale to support up to 330 clients and 384TB of storage giving the college the required platform to facilitate the expected growth in student numbers. The result is a shared workspace allowing significantly improved throughput of material.

Tyrell CCT has delivered a high performance media storage and ingest solution, enabling IT Carlow to provide their media students with the latest digital infrastructures.