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by DataCore

Santo Tomás University

CASE STUDY

Background

Situated in Chile, Santo Tomás University is one of the largest academic institutions in the country. Founded in 1988, it welcomes over 50,000 students each year to study at its 14 campuses that are stretched over 19 Chilean cities.

For the clinical health department of the university, video plays an important role in the education and research process with many thousands of hours of patient consultations recorded annually. Access to that content was in the past slow, laborious and manual.

Typically on each of the university campus locations, the recordings of sessions were viewed by connecting the cameras directly to TV/s or, were saved onto DVDs. Finding and sharing content locally was an inefficient process but with no centralised asset management system in place sharing content with students, teachers and medical professionals across the whole university was almost impossible.

With a mandate to modernise, coupled with the introduction of new legislation for educational institutions, the university decided to transform the way all recorded sessions were archived to better facilitate the protection, management and access of these important and often sensitive video assets.

The Need For Change

With modernisation in mind, Santo Tomas began the search for a secure, scalable and reliable storage solution that enabled students and staff from all of its campuses to access archived content regardless of their location.

Key requirements included:

- Highest levels of security and digital content governance to ensure proper access control
- Students and teachers must be able to review each session on the day the video was recorded, or later over the web
- The system needed to be seamlessly integrated with the incumbent clinical patient system where patient data can be found at given time
- Access to the content must be future proof and available should the clinical patient system not be available

In order to find the best solution, Santo Tomas called upon VGL, renowned experts in digital video and audio workflows across Latin America and trusted partner of Pixitmedia'sObject Matrix's in Chile. VGL assisted in defining the scope of the project through to determining the best solution needed to match both the requirements and budgets.

Following on from several onsite visits and interviews with university directors from across Chile, Santo Tomas chose Pixitmedia Object Matrix to protect and manage its data content through adopting Object Matrix, the media focused object storage platform. Object Matrix presented a scalable and cost-effective solution which incorporated automation and integration thus matching all requirements.

Following the implementation, Santo Tomas was able to modernise its workflows; existing content was easily migrated and tagged appropriately to reduce the time spent on media management, allowing students and teachers to quickly and easily locate and utilise existing content.

"Implementing Object Matrix has been a game changer for the institution. The workflow is responsive, flexible to enhancements, fulfils a legal requirement and also provides easy, secure and instant access to content. It is the first such integration creating a transparent workflow between non video clinical systems and high-end video solutions (Pixitmedia Object Matrix & Vision/ Telestream Vantage) in the country if not in Latin America"

Hernán Maldonado
National Director in charge of Academic Systems and Equipment, SANTO TOMÁS

The Workflow

- Each patient is associated with a digital file tagged with a unique identifier.
- When a video-based clinical consultation with a patient is to be recorded, a unique video identifier is also created, so every media file will always be associated exclusively to a particular patient.
- Video is captured by 2 cameras, one patient-facing and the other recording the medical student.
- The media files from both cameras are automatically stitched together and stored locally in a drive acting as a local cache for a week.
- The media files must be available locally to be watched by a professor and the student in the classroom. To achieve this the local media drive is connected to a local screen. This screen is also used for browsing content in the centralised Object Matrix archive.
- Based on a daily schedule, to avoid peak network utilisation, the media is transferred to Object Matrix object storage located in a secure remote data centre.

- When new video content arrives in the Object Matrix private cloud platform, the process in place (PiP) technology, built into Object Matrix, extracts the relevant patient metadata provided by the clinical digital system and adds that information as searchable metadata on the patient video.

- Then, according to user access definitions, those videos can be found, accessed and shared using the powerful Object Matrix Vision application using a web browser from any of the university locations.

The Technology Behind The Scenes

VGL vetted and selected the right technical partners that would collaborate, integrate and provide the tools necessary to meet the challenges faced by the university:

- The local patient records system is provided by Medilink

- Video stitching is provided by Magicsoft recording the output to a local hard drive.

- The local drive is monitored by Telestream Vantage. When ready Vantage sends both the video and patient metadata to the archive.

- The archive element is Object Matrix object storage provided by Pixitmedia Object Matrix

- Global access to the content for collaboration and sharing is achieved with Vision archive browser from PixitmediaObject Matrix.

Santo Tomas University, contribute to the formation of professionals with solid values and capable of contributing with integrity, efficiency, quality and social responsibility to the development of their families and the community. **ust.cl**

Pixitmedia by DataCore, is a leading provider of intelligent content and metadata management solutions for the media and entertainment industry. We go beyond storage to deliver a smarter ecosystem for media workflows, with end-to-end solutions that combine high-performance file, nearline, and archive platforms with metadata enrichment, indexing, and search. Enabled by data orchestration tools, our multi-tier technology simplifies content management and migration to ensure media assets are always where our customers need them.

Pixitmedia's innovative solutions integrate seamlessly into existing M&E workflows, optimizing efficiency and collaboration at every level - from ingest to archive to delivery. With Pixitmedia, content is always searchable, secure, and available whenever it's required.

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