ARCHIWARE

Berner Fachhochschule

Bern University of Applied Sciences builds communication training stations and completes workflow with LMS, MAM and P5 Archive
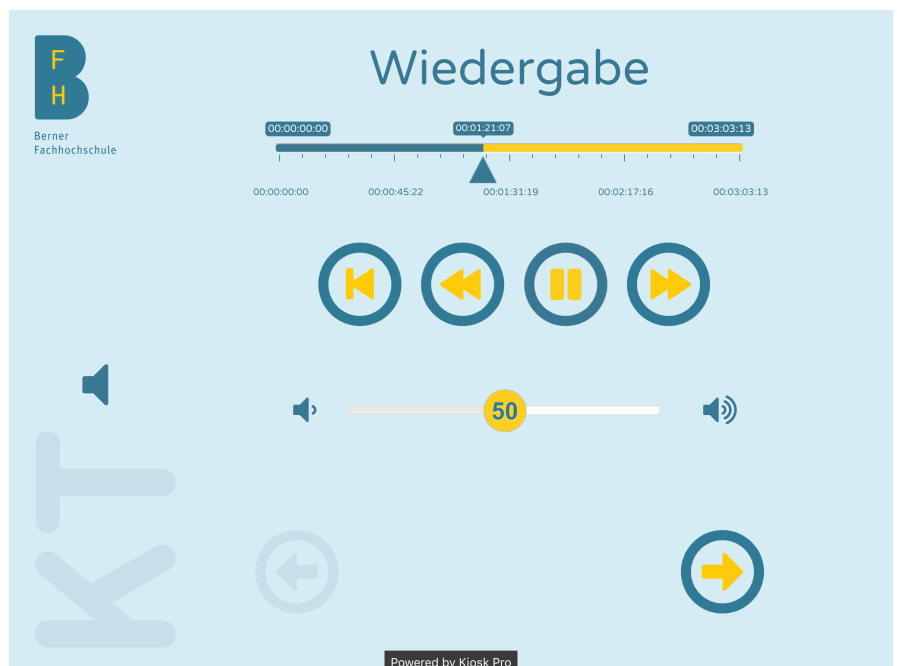

Communication training is a core part of many industries as well as educational institutions. For customer contact, management, patient communication and many other scenarios, interactive training of these skills is needed. At **Bern University of Applied Sciences in Switzerland**, communication training of medical students with the goal of improving patient communication has been part of the curriculum for many years. Recently, a new infrastructure was built to streamline the trainings and their management.

The growing importance of video for education and training called for an easy to use hardware and software solution that integrates recording, playing-back, storing and publishing of video data. The previous Windows XP-based system was unreliable and not integrated. There was no centralized storage for video data and DVDs were used to transfer and publish files.

The aim was to build a future-proof, easy to use system that offers a seamless workflow from capture to reviewing, tagging, transcoding, data management and publishing to a learning management system (LMS). Recording stations should also be usable for other faculties. **Halimedia** was chosen as local partner with considerable experience in video workflows.

The solution was built around a centralized **media asset management (MAM)** server to allow for efficient workflow automation, including archiving. **CANTEMO Portal** was chosen as MAM, together with Archiware P5 Archive. The video recording stations were built using highly reliable components and a web application was developed to allow remote control and tagging from iPads. Integration with existing planning tools was implemented to significantly reduce the management overhead of the training program. Over-all, ease of use and features surpass requirements.

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Today the workflow steps look as follows:

After switching on, the stations can capture video immediately. Recording and playback is remotely controlled via iPads and a web app that controls the **AJA Ki Pro** recorders. Reviewing, rewinding and watching recordings is usually done many times during a training session. Videos are tagged with the names of students and standardized patients (actors) to allow control of the publishing destination of the final clip after transcoding and to facilitate salary payments, respectively.

After the training session is completed, the captured videos and associated tags are transferred to a **CANTEMO Portal MAM server**. Once transcoding to the desired distribution formats is complete, the clips are made available in the centralized LMS. The MAM system initiates an automated archive process that starts **Archiware P5 Archive**, writing all files for long-term preservation on LTO tape storage.

The **AJA Ki Pro recorder** was chosen for its extreme reliability, flexibility and remote control options. All relevant features of the Ki Pro are remotely controlled by iPad, using the custom web application developed by **halimedia**.

Hardware:

- Eneo Surveillance Cameras
- Røde Microphones
- SHURE 4-Channel Mixers
- AJA Ki Pro Recorders
- Samsung Digital Signage Displays
- GENELEC Studio Monitors
- Overland Tape Library

Software:

- CANTEMO Portal MAM System
- Archiware P5 Archive Software
- Custom web application to remotely control recording, playback and tagging

About halimedia

halimedia is a **Swiss systems integrator** specializing in video workflows, media asset management, data management and storage solutions. Since 2001, halimedia has been a key partner in many projects in the Swiss broadcast, post-production and higher education markets.

The **Archiware P5** data management suite consists of 4 modules to protect data in any stage of the workflow:

P5 Synchronize - Cloning data for immediate availability
P5 Backup - Saving server data to disk and tape3
P5 Backup2Go - Saving workstation and laptop data
P5 Archive - Migrating of data to disk and tape for long-term storage
The **P5 Archive App** is an Add-on to P5 Archive enabling archiving from the Mac OS X Finder. When used with **Final Cut Pro X** libraries, external media are traced and included in the Archive.