

PRESS INFO Æ CASE STUDY Í ORF regional broadcast studiosĤ

Total ORF SD/HD conversion powered by STRYME



In an international tendering STRYME convinced the ORF planning engineers and is now successfully handling the SD/HD conversion of all counties directions.

The conversion of the entire director's room at each of the ORF regional studios called for a multichannel broadcast solution, that could securely implement the SD/HD adaption and facilitate the workflow. In an international tender offer, STRYME's GENESIX VideoServer made a solid impression and convinced the ORF.

WORKFLOW

The clips used by the ORF are located in the MAM system %DigiTV+David. Thus, it was essential to ensure a 100% integration of the system. The clips needed, were transferred by means of %DigiTV+and the %TransferClient+via CIFS to the GENESIX VideoServer. The clips received then, were automatically imported into the GENESIX Media Asset Management via a network share. The compatibility of the file is checked then and a thumbnail created. Using the GENESIX Media Asset Management (MAM), it is possible to administer the clips on the playout system (copy, move, delete, rename etc.). To summarize: The integration into the CMS %DigiTV+, makes it possible to access the ORF internal content by means of a network share. The user-friendly interface facilitates dragging and dropping of content into a watch

folder which GENESIX is then able to access. This allows the user to populate the playlist in the asset management tool or in the studio playout tool.

SYSTEM INTEGRATION

The test phase in the ORF broadcasting studio in Vienna (Funkhaus) and the regional studio Burgenland demonstrated the system's flexibility and made use possible at an early stage. Instead of the planned server exchange after the general HD conversion of the director's rooms, GENESIX was already integrated into the existing infrastructure and now ensures the smooth transition from SD to HD. The GENESIX system assures the ongoing conversion of the director's room in particular by still supporting the XDCAM D10 camera format, but of course, also HD. The SD-HD encoding is ensured by resampling and/or resizing and can be carried out in real time on four channels. The support of XDCAM HD422 ensures a 1:1 playout of the used files thus making any conversion superfluous. Additional format and codec support is available for:

AVI, Quicktime, MXF, Raw DV, DV (DV25, DVCAM), DV50, DV100, DVCPRO25, DVCPRO50, DVCPROHD, HDV, MPEG-2, MPEG-2 i-Frame, MPEG-2 IBP, MPEG-2 LongGOP, H.264, IMX 34/40/50, IMX D10, AVC-Intra, P2, P2 HD, Apple ProRes and Avid DNxHD.

ABROLL SCHEDULING

With ABRoll, channels and their individual playlists can be easily integrated into a large, dynamic one. ABRoll was specifically developed further in the scope of the project to realize the desire that ORF had for a centrally controlled playlist. The common playlist simplifies the handling and ensures an efficient use of the multichannel playout solution GENESIX. ABRoll permits existing playlists to be stored while easily preserving the structure of clips when they are swapped. Templates, which are predefined by place holders, are thus a decided asset in terms of time management. Now, the ABRoll tool is used for the playout in every regional ORF studio.

FILL AND KEY

By grouping onto the respective pages of the interface within the ABRoll GUI, it is possible to link channels with each other. For example, if channels 1 and 2 are located in the same group, then the actions are automatically executed on both channels. The clip needed is loaded by simply dragging and dropping from the internal GENESIX Library. The channels 1 and 2 start to play simultaneously if the button is pressed or a %play+ action is executed by means of a GPI control. The grouping can also be canceled immediately in this user interface. All channels can thus be optimally used, quickly linked, and securely released. The channels that have been released can then be immediately used for playout again. The

reliable client-server architecture allows multiple users to work simultaneously on a channel or multiple channels and scale up and down.

INGEST

Ingest offers ORF numerous recording options, which range from crash, scheduled, batch to loop recording. The 4-In/4-Out version, which was selected for equipping the regional studios, allows recording on four channels in succession. ORF utilizes the resources as follows:

1. Two channels are used for constant loop recording.
2. Two channels for the time-controlled recording.

Here, a start point must be defined for the time-controlled recording, the stopping point is defined by the VideoServer itself by means of full-video detection. The fullvideo detection automatically switches the line off as soon as the last signal has been received and thus reliably stops the recording. Currently, the system completely replaces the SD loop recorder, which had been used previously in the regional ORF studios. The ~~edit~~ while ingest+function provides the ability to load a growing file into an NLE during recording and edit it there. In total, the generated files can be transferred to a different network drive during the recording using the GENESIX Transfer Management Service (TMS). The file has the .tmp extension during the transfer. After the file has been successfully copied, it is then properly renamed and the ~~David~~+ archive system is then able to import it. By means of automatic clip synchronization, all files on both servers are made accessible to the staff.

HIGH REDUNDANCY

Both, GENESIX VideoServers work as stand-alone systems that can be operated separately in emergencies. In ORF's case, an identical configuration of both devices was implemented to ensure a 100% redundancy and failsafe performance. The servers are synchronized both during ingest as well as playout and access the same content - on file and on channel-level. The synchronization with the backup server is automatically taken over by the GENESIX Transfer Management Service. The system ensures a high availability by means of two mechanisms:

1. The files are synchronized between master and slave.
2. Every action on a channel on the master is also performed on the slave channel. If a file is added to the master, it is also copied to the slave.

If a file is deleted on the master, then this procedure is also carried out on the slave. This ensures 100% redundancy. The ~~DigiTV~~+ copies the file by means of CIFS to the VideoServer's master and the file is then automatically transferred to the slave. After a short period of copying, the file is then also located on the slave and can be used. But and that might be the most important, both GENESIX VideoServers are still stand-alone systems that can be operated separately.

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About ORF



ORF is the Austrian national broadcasting. Including multiple radio and television channels, 9 regional studios and numerous national stars and TV shows.

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About STRYME



Located in Vienna, STRYME has been providing and developing tailored professional broadcast and automation solutions for small, medium-sized and specialized broadcasters for more than a decade. The Austrian market leader is known for uncompromising quality and reliable out-of-the box solutions that simplify, speed up and optimize daily broadcast workflows. When video server reliability matters most, STRYME is the right choice.

As a long-term supplier of the Austrian Broadcast Corporation (ORF), STRYME is a renowned and trusted industry partner. The company has implemented a wide range of different projects, locally in Austria and internationally, in Germany, Switzerland, Italy, Russia or South Korea.

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