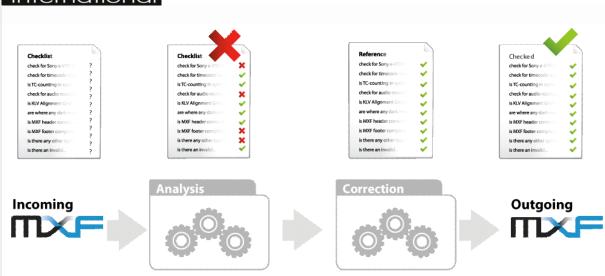# Solutions for Advanced Media Automation

Invitation: IBC 2015 Amsterdam

Dear Friends and Partner,

It's time to **reserve a timeslot at IBC** to discuss your current requirements now!

Cube-Tec's huge product portfolio provides innovative answers for most of the media automation and media Quality Control requirements:

MXF Legalizer, **Cube Workflow**, **QUADRIGA** & **QUADRIGA Video, AudioCube** with **Mastering** and **Restoration VPIs**, **Audiofile-Inspector**, **DOBBIN**, **CD-Inspector**, **MXF Loudness Assimilator**, **FOENICS forensic speech enhancement**, **Calibration Inspector**, **Trusted Playback**®

At IBC 2015 Cube-Tec will present advanced solutions for the integration of novel **automatic media QC** & **file repair** including automatic and semi-automatic workflows for the supervision of QC results.

MXF Legalizer - solves compliance issues - new features introduced

Full automatic correction of MXF media files! Convert incoming MXF files to standard conforming and interoperable files in a high-speed file-based process, with or without **EBU R 128 loudness correction**, scalable to distributed server farms with automatic failover procedures to secure high-availability.

MXF Legalizer is already certified to be compliant for the **German ARD-ZDF MXF Profiles**.

At the IBC2015 show Cube-Tec presents for the first time its **brand new Repair-Transcode™** as an optional module for MXF Legalizer. So far MXF Legalizer correction modules work fully lossless for the video and audio quality and do not require a re-encoding of the media bit-stream. MXF Legalizer uses a **minimally invasive repair** strategy. This means the new optional Repair-Transcode is only used if there are defects or bit-stream attributes which require a re-encode process, like change of the GOP-size or correction of illegally aligned MPEG Slices and Macro Block issues.

Standard transcode products are not designed to handle damaged file structures. With defective input files they often incorporate the damage in the video stream, like freezing frames, or massive blocking artefacts and repack this damage in the new file without any logging of this serious malfunction.
Cube-Tec's **Repair-Transcode is build-up from scratch to robustly correct faulty codec bit-streams** within

MXF file structures.

With the new Repair-Transcode module Cube-Tec now supports also MXF files with defects that only can be corrected by re-encoding of the codec bit-stream. This results in an improved quality assurance. The additional effort and cost for redirecting those files through an external transcoder farm can be saved.
After correction a full detailed and frame accurate report logs every performed correction. This minimises inspection time by the operator.

Of course for simple MXF format reformatting jobs from trusted sources MXF Legalizes can be used in a **cost-efficient**, minimalistic set-up with the application focus straight on the highest data throughput rate possible.

Cube Workflow - the BPMN modelling tool for cost efficient AV processes
Cube Workflow is the next generation for file-based media business automation and an enabler for workgroup efficiency. Cube Workflow provides flexible file-based media processing, transcoding, automatic restoration, automated audiovisual content inspection with QC verification/correction and metadata enrichment.

At IBC 2015 Cube-Tec presents a complete automated media validation and correction workflow. We will demonstrate the integration of the three analyser QC products: **MXF Analyser** (IRT), **VidiCert** (Joanneum Research), and **Aurora** (Tektronix) as well as the **Diamant** restoration suite (HS-Art) and the **AudioCube** (Cube-Tec) for the manual and semi-automatic restoration of video and sound.

DAVID - results from the European Research Project - improved QC and media restoration
For media damage impossible to be classified and restored fully automatic Cube-Tec has invited two project partners from the joint European research and development project DAVID. Together with the DAVID project partners Joanneum Research and HS-Art, Cube-Tec will demonstrate a streamlined QA and media repair chain orchestrated by the Cube Workflow **BPMN engine with integrated human operator** controlled media validation and restoration process steps.

QUADRIGA Video - toolset for large-scale media migration
The Quadriga technology enables large-scale migration of legacy video and audio tapes into digital archives with the advantages of a sophisticated quality control (QC) and the flexibility of an advanced workflow solution.

Cube-Tec at the EBU Village
Cube-Tec is one of the first implementers of the new EBU Strategic Programme for QC Standard. There is a joint demonstration planned between the EBU QC team (at the EBU Village booth hall 10.F20) and the early adopters of these new QC standards on their respective booths. IBC visitors will be proposed to individually configure EBU QC templates at the EBU village using the EBU.IO portal. It will be possible to upload these templates to a USB stick to check-out the **EBU QC compliant products** shown at the vendor booths.

At the Cube-Tec stand you can load your EBU QC template into Cube Workflow to generate a test plan for MXF Legalizer. By testing MXF files you will receive a QC report compliant to the new **EBU QC and EBU/AMWA FIMS QA** recommendations.

By standardising measurement terminologies, test procedures and by using interoperable QC interfaces, file-based QC transforms from initial proprietary products into a mature and reliable industry technology for the benefit of all users.

Monday, 14th September 2:30 pm Cube-Tec's CTO **Jörg Houpert will** also **present the achievements** in an **oral presentation** at the **EBU theatre** (booth 10.F20).

There will be a second **presentation** on Monday at 3:30 pm given **jointly** by **Cube-Tec** and **Tixel** on the current status of the WAN accelerated cloud based MXF Legalizer Online Repair Service titled:

"A globally accessible FIMS-based media QC and Repair Service – Status Q3-2015"

Cube-Tec: Stand 5.C41

Exhibition: 11 - 15 September

Amsterdam RAI, Amsterdam, Netherlands

Contact us now to schedule a meeting!

Please visit our stand **5.C41** at IBC in Amsterdam (hall 5) to discuss how we can support you in all interoperability and media workflow questions.

You can use this code **16831** for the **IBC registration** to get a free entry ticket.

Not attending this year? **Drop us a line** and we will inform you about all news after the show.

Best regards,

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