Strategies for Audiovisual Digitization Projects

Effective Outsourcing with Audiovisual Digitization Service Providers

Wednesday, June 14, 2017

Moderator: **Wayne Graham** Technical Director, CLIR





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Background





Agenda

Lightning talks



Agenda

Lightning talks

Moderated discussion



Agenda

Lightning talks

Moderated discussion

Q & A

Bay Area Video Coalition

Effective Outsourcing with Audiovisual Digitization Service Providers

Digital Library Federation Webinar, Wednesday, June 14th Kathy Rose O'Regan, Preservation Manager, Bay Area Video Coalition

BAVC - A Bay Area Community Hub

- Operational for 40 years +
- Non-Profit
- Bay Area community hub
- Focus on education, content creation, preservation
- Inclusive, diverse, welcoming and



BAVC Preservation

- Fully monitored transfers
- Archivist staff members
- Non Profit
- 23 Years of proven experience

Who Is BAVC Preservation?

Part of BAVC's Engagement Department

- Small, passionate staff
- Three full time staff members

Two contracted preservation technicians

One on call equipment technician

Services We Provide

- Digitization of a wide variety of videotape formats
- Digitization of limited audio formats
- Collection assessments
- Tape cleaning and baking
- Preservation consultations

How We Insure Quality

- Staff trained in archival and preservation best practices
- Wide selection of professional decks
- Time base correctors and analog and digital scopes used to ensure transfers of the highest possible fidelity
- Work with dedicated maintenance engineers
- Extensive Quality Control

Your Request for Proposal

- Clarity
- Specificity
- Know your needs
 - Know your collection and its condition!

How To Help Your Vendor

- Maintain open lines of communication with your vendor's point of contact throughout project
 - Ask as many questions as necessary to ensure project workflow is successful
- Ask for examples of vendor work previous to beginning of project

Helping You Over Hurdles Dedicated archivist staff members

Personal client interaction Grant writing professionals on

staff

cooceanont and advice

BAVC Tools (Freeeee!)

- QC Tools
- SignalServer
- AV Artifact Atlas
- AV Compass





THANK



BAY AREA VIDEO COALITION

YOUI

Film Scanning at The MediaPreserveSM

Diana Little Head of Film Preservation little@themediapreserve.com

Formats

8mm Super8 16mm

35mm

35mm

Formats

8mm Super8 16mm 35mm 9.5mm 17.5mm 28mm 70mm

Workflow

Or, how a film becomes a file

- 1. Check in
- 2. Inspection & prep
- 3. Cleaning
- 4. Scanning
- 5. Post production
- 6. QC & transcoding
- 7. Deliverables build... & deliver!

Prep



Prep





Cleaning



Scanning



Scanning



Scanning



Post Production



Post Production

Cropping





Post Production

Color Correction



Audio & Video

Multiple Ingest



Audio & Video

Multiple Ingest



Checksums QC Derivatives Metadata Packaging and delivery
Thanks!

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Memnon Archiving Services



ABOUT MEMNON ARCHIVING SERVICES

Memnon offers a range of services to **digitize**, **restore**, **preserve and provide access to audio-visual** and cultural archives. We offer on-site, out-sourced or hybrid services to meet our clients needs.

Our unique workflow system is designed to **ensure quality** while allowing **large volumes** of materials to be preserved. Memnon's services are suitable for a wide range of archive owners – from cultural institutions, libraries, universities and broadcasters.

Memnon has accrued nearly **20 years of experience** working with audio-visual technology throughout in Europe, North America, Africa and the Middle East. Our workforce has evolved into a multi-disciplinary team of engineers, computer specialists, meta-data experts and project managers.

A Sony Company since 2015, Memnon now has access to large quantities of video tape players, spare parts and technical knowledge only available to Sony Group companies.



A Sony Group Company

Sony and Memnon – a 100% Sony Europe Company

Sony World Leading Broadcast and Audio Visual World's foremost audio-visual digitization **Technology Firm** service provider dedicated to mass digitization Original Manufacturer of Audio and Video Tens Millions of items digitized in all formats Equipment and Tape Media with unique and unique expertise in handling archival material accumulated Know How and Capabilities Over 100 contracts in 20 countries delivered Strong Capabilities in Managing and Track Record In Handling Sensitive Media Global Pool of Heritage Players and Large Scale Project Deliver Know-How **Delivering Large Scale Projects globally** Broadcast. Equipment for nearly all AV formats Media and World-class Industrial Process Archival Unique and proprietary Production Engineering and Quality Management Organizations Management system for Mass Digitization Methodologies Member of Professional Archive Bodies Access to broad range of Technologies, and Organizations incl. IASA, FIAT/IFTA. Maintenance and Support, Spare Parts, ESTA, FIAF, AMIA, AIBM, ARSC Engineers First Accredited Premium Member of PrestoCentre

A WIDER GLOBAL NETWORK



Sales & Client Teams in Brussels, Basingstoke, Bloomington, Miami, Dubai & Singapore



OUR EXPERIENCE: MEMNON'S TRACK RECORD



Memnon helped a wide range of customers with Prestigious Archives and Invaluable Content to digitize their archives. Clients include world renown National Archives, Broadcasters, Organizations etc.



MEMNON ARCHIVING SERVICES, BLOOMINGTON

- Located in the Indiana University Innovation Center, a Silver LEED rated building
- Co-located with Indiana University's MDPI studios
- Memnon space completely remodeled in 2015
- Memnon installed more than 30,000 feet of CAT 6E, 10,000 feet of Hi Def COAX, 10,000 feet of balanced audio cable
- The facility has three sources of power with a dedicated 50 kVa Power Distribution Unit for all digitization equipment
- Multiple data networks including two high speed 10 Gbs fiber optic connections
- Rolled marmoleum floors to reduce the potential for static electricity and provide a clean, dust free environment
- Multiple studios are designed to be easily repurposed and allow allocating the required number of ingest lines for a given format depending on volumes and time constraints.



mennøn







MEDIA DIGITIZATION AND PRESERVATION INITIATIVE Memn()) INDIANA UNIVERSITY



Media Digitization & Preservation Initiative

216,273 items to date

MDPI PROJECT

- Completion by 2020
- Over 280,000 various A/V media carriers, plus 25,000 reels of film
- Production floor: 17,000 sq. ft.
- Staff of 50
- Current peak production (with further room to expand):
 - 616 tapes/media carriers digitized/day
 - 27 TB/day



MEMNON BLOOMINGTON FORMATS

We currently digitize a range of formats and are constantly adding new ones as the need arises from our customers. We can also handle delicate or rare formats in collaboration with our partners at MDPI.

We fully customize to client specifications but typically deliver back a package of files to include a preservation master, mezzanine, access files with embedded metadata, plus XML and QC files.

<u>Audio</u>

- ¼ inch reel to reel
- Cassettes
- DAT
- CD
- Grooved media (LP's, 78's,45's, transcription discs)

<u>Video</u>

• 1 inch open reel

Film

16mm

35mm

- Betacam family (SP, SX, Digital)
- ³/₄ inch U-Matic
- VHS
- DVCAM
- D2
- miniDV
- Hi8

A Sony Group Company







MEMNON'S CHOOSES THE RIGHT PROCESS FOR THE MEDIA



Unitary Process (1 at a time)

- 78 rpm : short tracks, needle and amplification curve selection, possible needle jumps
- Complex : 2" quad video tapes, film scanning, any items in bad conditions
- Very short tapes

Low Parallel Processes (3-6 depending on format)

- Good quality ¼" tapes with standard speed and track configuration
- Average quality video cassettes (U-matic)

High parallel processes (depends on formats but can be 8 to 32, or use of robotics)

- DAT
- Average to Good Quality Audio Cassettes
- Good Quality Video Tapes- BetaSP, VHS



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5 LEVEL QA/QC PROCESS

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Standard Levels of Quality Control for Volume Digitization

QA/QC	Process Stage	Details
Level 1	Preparation	Visual inspection during check-inVisual inspection during carrier preparation
Level 2	Digitization	 Machines are adjusted for each carrier 100% of files checked by digitization tools Flags/levels generated by equipment
Level 3	File Analysis	 Proprietary Tools and Workflow integration, e.g. Baton or BAVC QC tools for Video and NOA or Quadriga for Audio
Level 4	Post Digitization	 Operators check equipment generated flags Operators look for abnormalities Operators can flag a file for an additional check by the QC specialist (PBC)
Level 5	Final QC and Statistical Control	 Check all operator flags - PBC Check all equipment generated flags Check random samples using AQL Check metadata

Full Integration of 3rd Party Industry Standard Tools



Proprietary Quality Management Tools



WHAT DOES PARALLEL TRANSFER LOOK LIKE IN ACTION?



Example: Grooved Media

Disc check-in Re-sleeving Visual inspection





WHAT DOES PARALLEL TRANSFER LOOK LIKE IN ACTION?



Example: Grooved Media

2nd Visual Inspection

PAM Tracking

Ultrasonic Cleaning





WHAT DOES PARALLEL TRANSFER LOOK LIKE IN ACTION?



Example: Grooved Media

4 Digitization Work Stations



Multilevel Quality Assurance and Quality Control: Combines human QC with automated and semi-automated QC



THANK YOU

Please reach out to us.

We are happy to share information about evaluating your media, best practices and provide quotes for services.

Jan Jones, Business Development Coordinator jan.jones@memnon.com

(812) 856-6882

Memnon.com

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Meet with us during these upcoming conferences:

American Libraries Association Chicago, June 22

IASA Berlin, September 17

DLF/NSDA Pittsburg, October 23

Association of Moving Image Archivists (AMIA) New Orleans, Nov. 29





Bryce Roe Manager, Audio Preservation Services broe@nedcc.org



NEDCC is a nonprofit that serves collectionsholding institutions nationwide by offering conservation treatment, digital imaging, audio preservation, assessments and consultations, training programs, disaster assistance, and free web resources.

Audio Preservation Services

Conservation/Preservation

- Cleaning, re-housing, repair
- Digital imaging and conservation of original paper-based containers and related materials



Consulting

- Collection/item-level level assessments of audio holdings/carriers
- Workshops, webinars, "preservation leaflets" on audio preservation

Digitization and Reformatting....

Audio Preservation Services: Digitization

Magnetic and Optical Audio

- ¹/₄" Open-reel audio tape
- Compact cassette tape
- Digital Audio Tape (DAT)
- Compact Disc (CD)



Grooved Media

With IRENE

- Lacquer disc
- Aluminum transcription disc
- Wax cylinder
- Tin foil
- Other rare formats

With Stylus

- Metal master disc
- Long-play (LP) vinyl disc
- Shellac disc





IRENE

Non-contact approach

Able to digitize damaged, fragile media



Magnetic Audio

- 1:1 fully-attended transfers
- 100% quality control
- Fully-informed consent: cleaning, conservation and rehousing options
- Strict adherence to industry standards (IASA TC-04; FADGI)

Good candidates



- Important collections where "stakes are high"
- Fragile collections that are too risky to be transferred unattended
- Clients who have no time/staffing to completely listen to deliverables

How to Approach NEDCC

Call or Email!

• Proposals are a consultation, not a price matrix

Physical examination or photos of carriers

- Secure, climate controlled storage
- No storage fees for pending projects
- Packing and shipping tips on website

Inventory or summary statistics

We provide template with information we need to estimate cost

Website

- "About Audio" and "Working with Audio Preservation"
- Funding opportunities

Thank You!

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"Need to know"

VS.

"Nice to know"

• What type of information is required when I first reach out to service providers?

- What type of information is required when I first reach out to service providers?
 - Format type(s)
 - Length of time in hours / # of items
 - Condition
 - Deliverables
 - Photos

• What type of information is required when I first reach out to service providers?



- Deliverables
- Photos

• What type of information is required when I first reach out to service providers?



• What advice can you give re: seeking out and identifying the most "qualified" service provider?

- What advice can you give re: seeking out and identifying the most "qualified" service provider?
 - Best practices = compare 3 proposals
 - Do your homework: check relevant guidelines (FADGI, IASA, ...) for info on deliverables

• What type of infrastructure should my institution have in place before we seriously consider digitization of A/V assets? Is there a minimum viable digital preservation plan we should aim for?

- What type of infrastructure should my institution have in place before we seriously consider digitization of A/V assets? Is there a minimum viable digital preservation plan we should aim for?
 - Storage
 - Fixity
 - Security
 - Metadata
 - File Formats

• What are some strategies and/or important considerations for when I am prepping materials to go to service provider?

• What are some strategies and/or important considerations for when I am prepping materials to go to service provider?

• Manifest

Strategies for Audiovisual Digitization Projects

NEXT WEEK! Low-Cost, DIY, and Community-Based Approaches to Audiovisual Digitization

Wednesday, June 21, 2017 @ 2 PM ET

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