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Tools and Apps from AVPreserve

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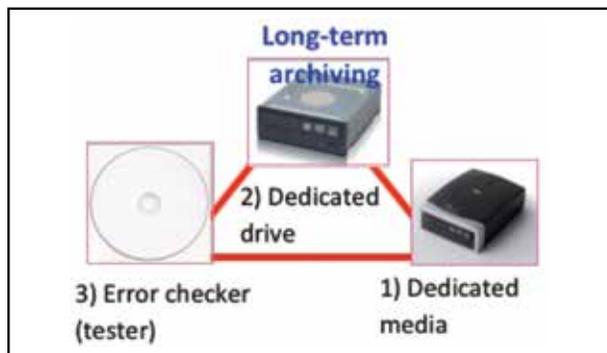
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2. For the selection of the media, it is recommended to use the one that has passed the life expectancy test = ISO/IEC10995, ISO/IEC16963. This recommendation is stated within ISO/TR17797: Electronic archiving-Selection of digital storage media for long-term preservation.
3. Good error or bad error? How do users know the data is good or bad? These values are clearly defined in ISO/IEC29121, and the error rate can be measured by using an error checking device. The initial occurrence value and the value during storage can be known by using this device.

JVC's Approach

Our approach is to provide end users with a disc archive solution that meets ISO/IEC29121 guidelines and which tells you what error rate would be suitable for archiving. Moreover, the turnkey solution, whatever the company size is, can be easily implemented into any workflow.

Figure3: Ideal Archiving Operation
Using Optical Discs.



1. **Dedicated Media:** Up to now, users have had to rely on what manufacturers say about the lifetime expectancy. For improved transparency of the claims, JVC makes use of ISO/IEC10995 life expectancy tests conducted by an independent lab. Overall characteristics and raw materials are uniquely designed and tuned up for long-term archiving.
2. **Dedicated Drive:** As explained, the drive plays an important role in disc archiving = continually achieving the ISO-defined error rate. The special drive optimizes recording quality with the ISO certified discs.
3. **Error Checking Device:** This is developed for complete error management from the writing stage to migration. Understanding error rate means understanding your data condition. Safety values are defined in ISO/IEC29121, and users can easily understand the condition of the data and estimate the migration timing.

As you can see, optical discs may not be suitable for back-up of ultra-huge data; however, this would be a useful solution if the project size and tier of the archive process are considered. Writing quality = safety level and migration timing are supported by ISO standards, and this mechanism will contribute to users' transparent archiving activities. The data condition is no longer invisible.

Reference Notes

1. JIS for "Document Management — Long-Term Preservation for Electronic Imaging Documents" was revised (JIS Z 6017). *Ministry of Economy, Trade and Industry*, September 20, 2013.
2. **Japan Image and Information Management Association (JIIMA)**, "Blu-Ray DiscTM Inspection Standard for Long-Term Storage of Digital Documents and Handling Guidelines."
3. **Japan Image and Information Management Association (JIIMA)**, "Guideline for Archiving with Shelf-Stable Optical Disks."
4. **Takao Ihashi and Toshio Suzuki, Tokyo City University**, *Journal of the Center for Information Studies*, 12:16 (2011).
5. BOC(Holdings), Ltd, BOC data for optical drive trend (2014). 🌿

Hiroyuki Ito is Managing Director of JVC Advanced Media Europe GmbH. She has been focusing on optical media business particularly for professional storage market in Europe for over five years.

Tools and Apps from AVPreserve

by **Chris Lacinak** (President and Founder, AVPreserve) Visit: <http://www.avpreserve.com/avpsresources/tools/>

AVCC — A free, open-source Web application developed by AVPreserve and funded by **Library of Congress**, METRO (<http://metro.org/>) and AVPreserve. AVCC is focused on enabling collaborative and volunteer-driven efforts to inventory and describe AV collections in order to gain the intellectual control necessary to make decisions about collection management and obtain funding. Data entry is controlled to promote quality, and there are several built-in reports and graphs that make it easy to get key metrics and documentation. <http://www.avpreserve.com/tools/avcc/>

MediaSCORE/MediaRIVERS — A free, open-source media preservation prioritization Web application created in collaboration between AVPreserve and **Indiana University**. MediaSCORE (Media Selection: Condition, Obsolescence, and Risk Evaluation) enables a detailed analysis of degradation and obsolescence risk factors for most analog and physical digital audio and video formats. MediaRIVERS (Media Research and Instructional Value Evaluation and Ranking System) guides a

structured assessment of research and instructional value for media holdings. <http://www.avpreserve.com/tools/mediascore-mediarivers/>

Catalyst — a new solution developed by AVPreserve to perform large-scale, item-level inventories of AV collections with increased quality, value, oversight, and optimization of resources. Images of items are used to enable remote description, quality control, and collection management. Taking advantage of automated processing and minimal datasets, even a small team can work through hundreds or thousands of items a day. Catalyst data can be exported to generate reports for preservation planning and selection, or to become the basis of a finding aid or more complete catalog record. <http://www.avpreserve.com/tools/catalyst-inventory-software/>

Fixity — A simple, free, and open-source cross-platform desktop application created by AVPreserve. Fixity enables automated fixity monitoring and reporting for stored files of any kind. Schedule routine scans to take place and receive detailed reports via email show-

ing whether files have been added, moved, renamed, changed, or removed. Fixity can be used with any files. <http://www.avpreserve.com/tools/fixity/>

MDQC — A simple, free, and open-source cross-platform desktop application created by AVPreserve. MDQC stands for Metadata Quality Control and enables quality control on batches of files based on technical and embedded metadata within them. MDQC can be used with any files. <http://www.avpreserve.com/tools/mdqc/>

BWF MetaEdit — A free, open-source, cross-platform desktop tool created by the Federal Agencies Digitization Guidelines Initiative (FADGI) and developed by AVPreserve. This tool permits embedding, editing, and exporting of metadata in Broadcast WAVE Format (BWF) files. It can enforce metadata guidelines developed by the Federal Agencies Audio-Visual Working Group, as well as specifications from the European Broadcasting Union (EBU), Microsoft, and IBM. <http://www.avpreserve.com/tools/bwf-metaedit/> 🌿