New York’s Museum of Modern Art deploys the Arkivum solution as part of a 6.2 PB, 10-year project to digitise, preserve and make accessible some of their most valuable audiovisual artworks.

With 500 hours of Andy Warhol’s 16mm films to preserve, along with many other audiovisual artworks, The Museum of Modern Art in New York required a scalable and financially sustainable solution to the challenges of long-term file format future-proofing, data archiving and management.

The integrated Archivematica / Arkivum solution, along with the in-house designed but open source Binder indexing system, will enable MoMA to handle the expected 6.2 PB of digitised audiovisual art they expect to generate over the next 10 years.

The very nature of the digitised assets that MoMA needs to preserve also posed its own challenges – digitising AV artworks produces relatively small numbers of very large files – something that the preservation system would need to be designed around.

The number of reels of 16mm film that The Andy Warhol Foundation for the Visual Arts has donated to MoMA.

4,000
**The Benefits**

**Economical way to scale**

For the volume of data storage required by MoMA, the tape-based Arkivum system is more financially sustainable than a traditional disk-based or cloud-based storage system. In fact it is at least a factor of ten more cost-effective, and as a consequence it is an economical way for MoMA to scale the system to meet its expected growth towards 6.2PB of required storage over the next 10 years. The growth is coming from the digitisation of MoMA’s collection of AV assets, and in particular the 500 hours of Andy Warhol’s 16mm films.

**The Solution**

**US National Digital Stewardship Alliance**

The solution needed to comply with end-to-end digital preservation best practices at significantly higher levels (as defined by the US National Digital Stewardship Alliance) than MoMA had previously achieved, as well as delivering a much easier process for accessing the AV artworks. With this in mind, a system was designed around the already available integration between the Archivematica file format preservation system and the Arkivum data archiving solution, which was then married to an indexing tool (the open source Binder) that MoMA designed and financed as part of this project.

**Appliance, local disk cache and tape library**

The MoMA Arkivum solution was deployed on-site, providing MoMA with an end-to-end local resource. The Arkivum footprint comprises an on-site Arkivum appliance; a multi-terabyte local hard drive cache and an IBM LTO tape library for long-term data storage.

**100% data integrity**

This combined system is located in the MoMA data centre in New York. The system and its data is duplicated in another MoMA data centre for disaster recovery, and, crucially, to support the Arkivum 100% data integrity guarantee. Added to these data instances, a third copy of the tape-based data is stored offline at yet another MoMA location.

The entire tape duplication process is fully managed by Arkivum and is instrumental in being able to provide the 100% data integrity guarantee.

**Applying higher standards of preservation**

Having now reached the highest levels of the National Digital Stewardship Alliance best practice standards with the combined Archivematica / Arkivum / Binder system, MoMA have now raised their standards for digital preservation and will shortly be using the considerably higher assessment requirements embodied in ISO 16363 - the recommended practices for assessing the trustworthiness of digital repositories.

**About Arkivum**

Arkivum provides specialist best-of-breed long-term data safeguarding and archiving solutions, designed to respond to today’s compliance and governance requirements.

Arkivum works with institutions across many industries, all of which generate high amounts of mission-critical data that needs to be preserved for many years to come.

**Talk to us**

To find out more about our solutions and to start securing your data today and for the future, please contact us on 44 (0)1249 405060 or email us at info@arkivum.com.