The Museum of Modern Art in New York City increases productivity, saves time and money, and extends the value of their legacy collections management system through automated integration of NetXposure’s enterprise DAM solution with Gallery System’s TMS Art Database.

MoMA
The Museum of Modern Art

MoMA’s collection includes more than 150,000 paintings, sculptures, drawings, prints, photographs, architectural models and drawings, and design objects. The museum also owns over 22,000 films, videos, and media works, as well as film stills, scripts, posters and historical documents. Maintaining an organized digital record of these assets, along with all the data associated with them, is paramount to maintaining MoMA’s standing as one of the world’s most reputable education and research centers for modern and contemporary art.

Selecting a Digital Asset Management Solution

Until 2005, most of the digital records of MoMA’s collection had traditionally been stored in a legacy collections management system called TMS (short for The Museum System). Additionally, there were approximately two terabytes of historical and legal documentation on various CDs and hard drives, as well as a digital archive of tens of thousands of photographs, including installation views of exhibitions and images of the Museum’s building and grounds.

With a rapidly growing collection, MoMA’s realized it had outgrown its collections management system and needed a more robust and sophisticated tool for handling digital images, documents and rich media files. Among the most immediate needs for the system were the following:

- Secure, controlled web access for all staff members
- Easy to use interface for non-technical users
- Ability to repurpose files for different uses
- Multi-platform support (Mac, PC, all major web browsers)
- Scalability
- Ability to seamlessly integrate with other applications

After an exhaustive search and evaluation of several options, MoMA settled on NetXposure’s enterprise Digital Asset Management solution.

NetXposure Web Services API

Included in NetXposure’s Developer Tool Kit module is a full Web Services API, so you can essentially remote-control the application from any external system. The API itself is built on Apache’s Axis Web Service framework, meaning that it is entirely standards-compliant and interoperates with Java and .NET. The Web Services API provides SOAP-RPC over HTTP access to NetXposure, and includes documentation, sample code, and Java-wrapper code.

The advantages a Web Services API brings to the NetXposure DAM are numerous. For example, external applications such as ecommerce sites, catalogue workflow software, remote kiosks, or content management systems can “talk to the DAM”, resulting in a seamless “push” of content such as images and data from the DAM to the external application upon request.

The bottom line is that our technology strategy is to grow our digital asset collection and to leverage it to better achieve the Museum’s mission. With digital assets core to this strategy, we rely heavily on the technology that manages these assets. Our DAM solution is a fundamental piece to this. NetXposure delivers excellent value for the price. In fact, you’d have to pay four times as much for similar capabilities in other products. It’s powerful enough to meet our growing image management needs yet isn’t frontloaded with unnecessary bells and whistles. Further, NetXposure’s willingness to customize the solution to meet our unique workflow was unmatched.

Steve Peltzman
Chief Information Officer
Museum of Modern Art, New York
Technology Case Study:  
DAM + TMS Art Database Integration

NetXposure Web Services API (continued)
Or in the cases where the DAM needs to be continually populated with new information from external sources, the Web Services API can set up to automatically “pull” files and data into the DAM from sources external sources such as a legacy collections management system in a museum.

The Web Services API provides a standard WSDL interface for auto-discover, as well as a Java wrapper that allows the developer to avoid having to learn anything about Web Services protocols. The Java wrapper provides access to Web Services with the IPClient class; each method handles all the SOAP messaging and authentication for you.

Making the DAM and TMS Database Talk to Each Other
With an existing art database (TMS) full of 130,000 art object records, and a NetXposure DAM equiped with a Web Services API, the challenge for MoMA was to make these two systems “talk to each other”. More specifically, the systems needed to access and share information on both the metadata associated with each object record (artist, date, medium, title, etc.), and the media for each record (images of front, back, both sides, black and white, color, on display, etc.).

The key to making the systems “talk” was the link mandate, because without a common link, data in two systems can not be connected. The Web Services API was programmatically set up to exchange information between the two systems based on the common link. This presented two options for MoMA, one system for legacy data, and another for new data moving forward:

A) Tag and Match (continued):
In this scenario the systems operate independently and you use naming conventions and/or data entry to assign IDs. For example, each asset in the TMS art database has an accession number. This number is “tagged” to the high resolution artwork in the DAM in either the file name, custom metadata fields, or embedded metadata fields such as Dublin Core.

B) Place and Fill:
In this scenario internal IDs and automation are used to link the systems. When new artwork is added to the TMS database, a placeholder is automatically created in the DAM. High resolution images are then loaded into the DAM placeholder.

About NetXposure
NetXposure delivers software solutions that reduce the time and cost of content production, maximize ROI from media assets, and streamline the workflows of managing large libraries of digital files. With a history as an industry pioneer in developing Rich Internet Applications (RIAs), NetXposure has become a leader in delivering Digital Asset Management (DAM) solutions to organizations of all sizes across a wide range of industries.

Founded in 1995, NetXposure is headquartered in Portland, Oregon with an office in London, England and Tokyo, Japan. For more information visit www.netx.net or call 503.499.4342.